

# Panasonic<sup>®</sup>

## Operating Instructions

## Manual de instrucciones

## High Definition Hospitality Plasma Display

## Pantalla de plasma de alta definición para la industria hotelera

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Model No.  
Número de modelo

**TH-37PR11UK**  
**TH-37PR11UH**  
**TH-42PR11UK**  
**TH-42PR11UH**



The illustration shown is an image.  
Before connecting, operating or adjusting this product, please read these instructions completely.  
Please keep this manual for future reference.

La ilustración mostrada es una imagen.  
Antes de conectar, utilizar o ajustar este producto, lea completamente este manual de instrucciones;  
y guárdelo para consultarlo en el futuro en caso de ser necesario.

**English**

**Español**



The lightning flash with arrow-head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.



The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

**WARNING :** To prevent damage which may result in fire or shock hazard, do not expose this apparatus to rain or moisture.  
Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set.  
(including on shelves above, etc.)

**WARNING :** 1) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.  
2) Do not remove the grounding pin on the power plug. This apparatus is equipped with a three pin grounding-type power plug. This plug will only fit a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician.  
Do not defeat the purpose of the grounding plug.

This video monitor is designed to display television content from a separate TV tuner. Full-power analog TV broadcasting in the United States will end (as required by law) on February 17, 2009, after which full-power TV broadcasts will be digital only. If this device is used after that date to record or display programming from a product with a TV tuner that relies on a TV antenna, that product would need to contain a digital tuner, or a TV Converter would be necessary to tune the digital signal received with a TV antenna. Analog TVs should continue to work as before for other purposes (e.g., for watching low-power TV stations still broadcasting in analog, watching pre-recorded movies, or playing video games). When a Converter is used with an older television receiver or directly with this product, a signal splitter might be necessary to continue to receive low-power analog broadcasts via an antenna. For more information, please see [www.DTV.gov](http://www.DTV.gov) or 1-888-CALL-FCC. For information on the TV Converter program, and on government coupons that may be used toward the purchase of one, see [www.dtv2009.gov](http://www.dtv2009.gov), or call the NTIA at 1-888-DTV-2009. Please check with your cable or satellite service provider if you have questions about your cable or satellite set-top box.

# Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments / accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.



# Dear Panasonic Customer

*Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new Plasma Display.*

*To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.*

*Retain your purchase receipt as well, and record the model number and serial number of your set in the space provided on the rear cover of these instructions.*

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# FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

## **FCC CAUTION:**

**To assure continued compliance, follow the attached installation instructions and use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this device.**

### FCC Declaration of Conformity

Model No. TH-37PR11UK, TH-37PR11UH, TH-42PR11UK, TH-42PR11UH

Responsible Party:	Panasonic Corporation of North America One Panasonic Way 1F-10, Secaucus, NJ 07094
Contact Source:	Panasonic Professional Display Company Panasonic Plasma Concierge 1-800-973-4390

## **CANADIAN NOTICE:**

This Class B digital apparatus complies with Canadian ICES-003.

## **Note:**

Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

## **Trademark Credits**

- VGA is a trademark of International Business Machines Corporation.
  - Macintosh is a registered trademark of Apple Computer, USA.
  - SVGA, XGA, SXGA and UXGA are registered trademarks of the Video Electronics Standard Association.
- Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

# Safety Precautions



## CAUTION

**This Plasma Display is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.**

(All of the following accessories are manufactured by Panasonic Corporation.)

- Pedestal ..... TY-ST09GR-K (for TH-37PR11UH, TH-42PR11UH),  
TY-ST09GR-BK (for TH-37PR11UK, TH-42PR11UK)
  - Wall-hanging bracket (vertical)..... TY-WK42PV3U
  - Wall-hanging bracket (angled) ..... TY-WK42PR3U
  - BNC Component Video Terminal Board..... TY-42TM6A
  - BNC Composite Video Terminal Board ..... TY-42TM6B
  - BNC Dual Video Terminal Board..... TY-FB9BD
  - Ir Through Terminal Board ..... TY-FB9RT
  - RCA Component Video Terminal Board..... TY-42TM6Z
  - RCA Composite Video Terminal Board ..... TY-42TM6V
  - PC Input Terminal Board ..... TY-42TM6P
  - RGB (Digital) Terminal Board..... TY-42TM6D
  - HDMI Terminal Board..... TY-FB8HM
  - Dual HDMI Terminal Board ..... TY-FB10HMD
  - AV Terminal Box..... TY-TB10AV
  - DVI-D Terminal Board ..... TY-FB11DD
  - U/V Tuner Board with MATE I/F ..... TY-FB9TU
- (Except for Canada and United States of America, only Mexico)

Always be sure to ask a qualified technician to carry out set-up.

Small parts can present choking hazard if accidentally swallowed. Keep small parts away from young children. Discard unneeded small parts and other objects, including packaging materials and plastic bags/sheets to prevent them from being played with by young children, creating the potential risk of suffocation.

### ■ When using the Plasma Display

**Do not bring your hands, face or objects close to the ventilation holes of the Plasma Display.**

- Top of the Plasma Display is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries can happen if any body parts are brought too close. Placing any object near the top of the display could also result in heat damages to the object as well as to the Display if its ventilation holes are blocked.

**Be sure to disconnect all cables before moving the Plasma Display.**

- Moving the Display with its cables attached might damage the cables which, in turn, can cause fire or electric shock.

**Disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.**

- Electric shocks can result if this is not done.

**Clean the power cable regularly to prevent it from becoming dusty.**

- Built-up dust on the power cord plug can increase humidity which might damage the insulation and cause fire. Unplug the cord from the wall outlet and clean it with a dry cloth.

**This Plasma Display radiates infrared rays, therefore it may affect other infrared communication equipment. Install your infrared sensor in a place away from direct or reflected light from your Plasma Display.**

#### **Note:**

Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.



# WARNING

### ■ Setup

**Do not place the Plasma Display on sloped or unstable surfaces.**

- The Plasma Display may fall off or tip over.

**Do not place any objects on top of the Plasma Display.**

- If water spills onto the Plasma Display or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma Display, please consult an Authorized Service Center.

**Do not cover the ventilation holes.**

- Doing so may cause the Plasma Display to overheat, which can cause fire or damage to the Plasma Display.

**Transport only in upright position!**

- Transporting the unit with its display panel facing upright or downward may cause damage to the internal circuitry.

**If using the pedestal (optional accessory), leave a space of 3 15/16" (10 cm) or more at the top, left and right, and 2 3/4" (7 cm) or more at the rear, and also keep the space between the bottom of the display and the floor surface. If using some other setting-up method, follow the manual of it.**

### ■ AC Power Supply Cord

**The Plasma Display is designed to operate on 110 - 127 V AC, 50/60 Hz.**

**Do not use any power supply cord other than that provided with this unit.**

- Doing so may cause fire or electric shocks.

**Securely insert the power cord plug as far as it will go.**

- If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they should not be used.

**Do not handle the power cord plug with wet hands.**

- Doing so may cause electric shocks.

**Do not do anything that might damage the power cable. When disconnecting the power cable, hold the plug, not the cable.**

- Do not make any modifications, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damage to the power cable which can cause fire or electric shock. If damage to the cable is suspected, have it repaired at an Authorized Service Center.

**If the Plasma Display will not be used for a long period of time, unplug the power cord from the wall outlet.**

### ■ If problems occur during use

**If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the Plasma Display, unplug the power cord immediately.**

- Continuous use of the Display under these conditions might cause fire or permanent damage to the unit. Have the Display evaluated at an Authorized Service Center. Services to the Display by any unauthorized personnel are strongly discouraged due to its high voltage dangerous nature.

**If water or foreign objects get inside the Plasma Display, if the Plasma Display is dropped, or if the cabinet becomes damaged, disconnect the power cord plug immediately.**

- A short may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.

# Maintenance

**The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.**

- If the surface is particularly dirty, wipe with a soft, lint-free cloth which has been soaked in pure water or water in which neutral detergent has been diluted 100 times, and then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects, otherwise the surface may become damaged. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the surface may be adversely affected.

**If the cabinet becomes dirty, wipe it with a soft, dry cloth.**

- If the cabinet is particularly dirty, soak the cloth in water to which a small amount of neutral detergent has been added and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma Display. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

# Accessories

## Accessories Supplied

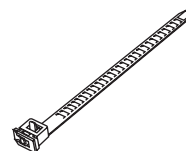
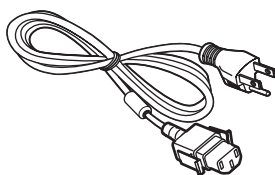
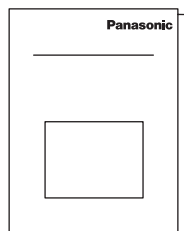
Check that you have the Accessories and items shown



☐ Operating Instruction book

☐ AC cord

☐ Fixing band × 1

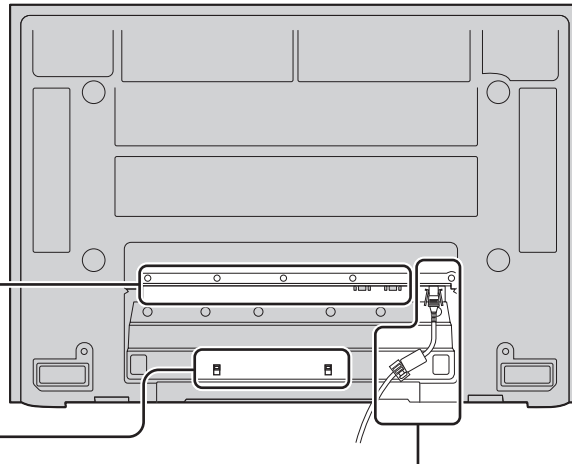


The remote control is not included with this set. Available for purchase separately.

Object model : N2QAYB000178



# Connections



AC cord connection (see page 12)

## – AC cord fixing

**① Plug the AC cord into the display unit.**  
Plug the AC cord until it clicks.

**② Fix the AC cord with the clamping band which is attached to the unit.**

**Note:**  
Make sure that the AC cord is locked on both the left and right sides.

**Close**

Push until the hook clicks.

**Open**

1. Keep the knob pressed.  
2. Pull off.

**Unplug the AC cord**

Unplug the AC cord pressing the two knobs.

**Note:**  
When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.

## – Cable fixing band

Secure any excess cables with band as required.

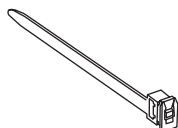
### **Note:**

One fixing band is supplied with this unit. In case of securing cables at two positions, please purchase it separately.

Pass the attached cable fixing band through the clip as shown in the figure.

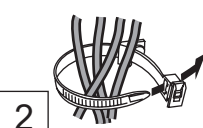


1



To secure cables connected to Terminals, wrap the cable fixing band around them then pass the pointed end through the locking block, as shown in the figure.

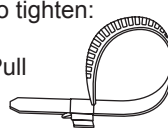
**While ensuring there is sufficient slack in cables to minimize stress (especially in the power cord), firmly bind all cables with the supplied fixing band.**



2

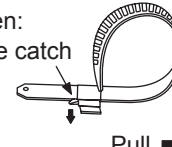
To tighten:

← Pull

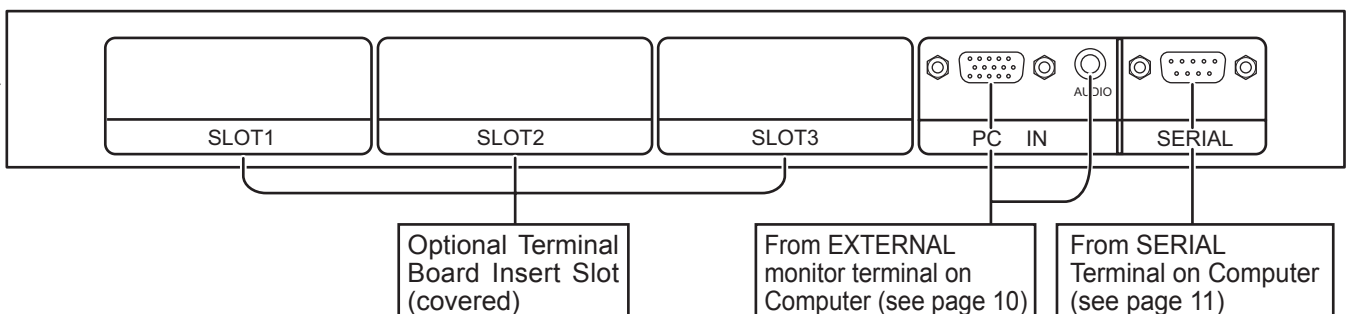


To loosen:

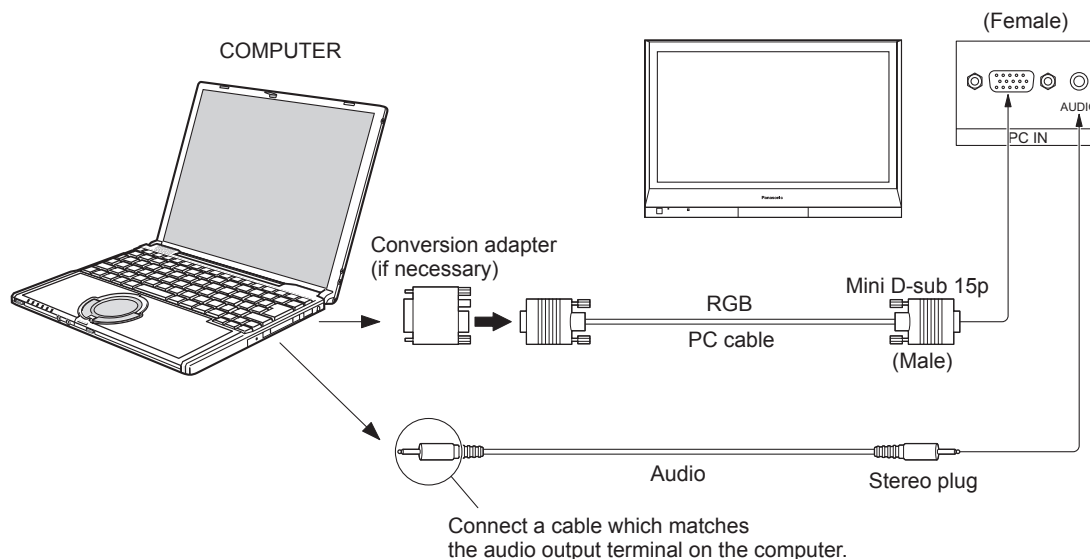
Push the catch



Pull →



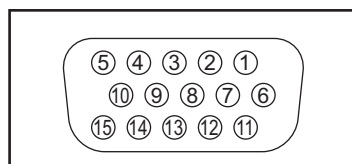
## PC Input Terminals connection



### Notes:

- Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
- The display resolution is a maximum of 768 × 720 dots (TH-37PR11UK/H), 768 × 768 dots (TH-42PR11UK/H) when the aspect mode is set to "4:3", and 1,024 × 720 dots (TH-37PR11UK/H), 1,024 × 768 dots (TH-42PR11UK/H) when the aspect mode is set to "FULL". If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.
- The PC input terminals are DDC2B-compatible. If the computer being connected is not DDC2B-compatible, you will need to make setting changes to the computer at the time of connection.
- Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with DOS/V compatible Mini D-sub 15P terminal.
- The computer shown in the illustration is for example purposes only.
- Additional equipment and cables shown are not supplied with this set.
- Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.
- Component Input is possible with the pin 1, 2, 3 of the Mini D-sub 15P Connector.
- Change the "COMPONENT/RGB-IN SELECT" setting in the "SET UP" menu to "COMPONENT" (when COMPONENT signal connection) or "RGB" (when RGB signal connection). (see page 30)

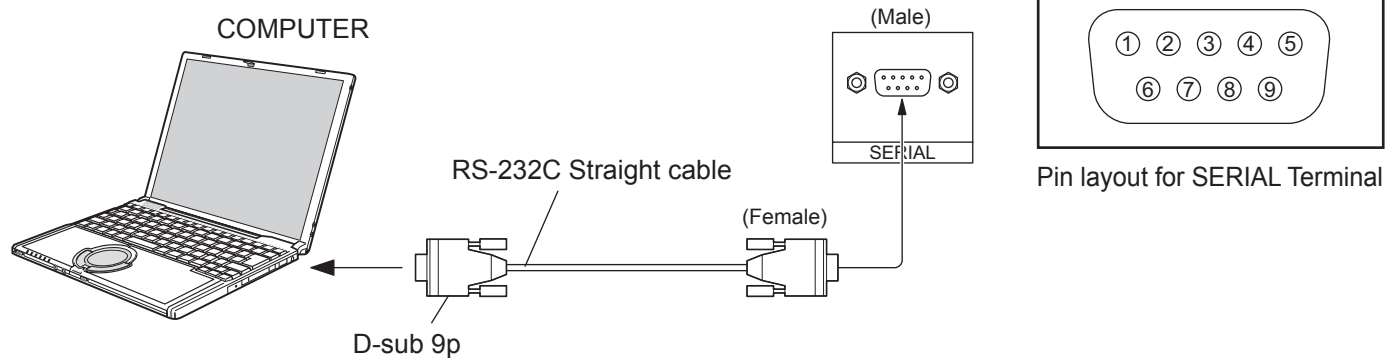
### Signal Names for Mini D-sub 15P Connector



Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R (P <sub>R</sub> /C <sub>R</sub> )	⑥	GND (Ground)	⑪	NC (not connected)
②	G (Y)	⑦	GND (Ground)	⑫	SDA
③	B (P <sub>B</sub> /C <sub>B</sub> )	⑧	GND (Ground)	⑬	HD/SYNC
④	NC (not connected)	⑨	+5 V DC	⑭	VD
⑤	GND (Ground)	⑩	GND (Ground)	⑮	SCL

# SERIAL Terminals connection

The SERIAL terminal is used when the Plasma Display is controlled by a computer.



## Notes:

- Use the RS-232C straight cable to connect the computer to the Plasma Display.
- The computer shown is for example purposes only.
- Additional equipment and cables shown are not supplied with this set.

The SERIAL terminal conforms to the RS-232C interface specification, so that the Plasma Display can be controlled by a computer which is connected to this terminal.

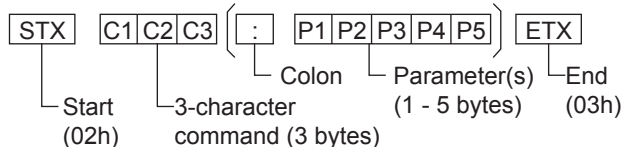
The computer will require software which allows the sending and receiving of control data which satisfies the conditions given below. Use a computer application such as programming language software. Refer to the documentation for the computer application for details.

## Communication parameters

Signal level	RS-232C compliant
Synchronization method	Asynchronous
Baud rate	9600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
Flow control	-

## Basic format for control data

The transmission of control data from the computer starts with a STX signal, followed by the command, the parameters, and lastly an ETX signal in that order. If there are no parameters, then the parameter signal does not need to be sent.



## Notes:

- If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.
- If an incorrect command is sent by mistake, this unit will send an "ER401" command back to the computer.
- SL1A, SL1B, SL2A and SL2B of Command IMS are available only when a dual input terminal board is attached.

## Signal names for D-sub 9P connector

Pin No.	Details
②	R X D
③	T X D
⑤	GND
④ • ⑥	Non use
⑦ ⑧	(Shorted in this set)
① • ⑨	NC

These signal names are those of computer specifications.

## Command

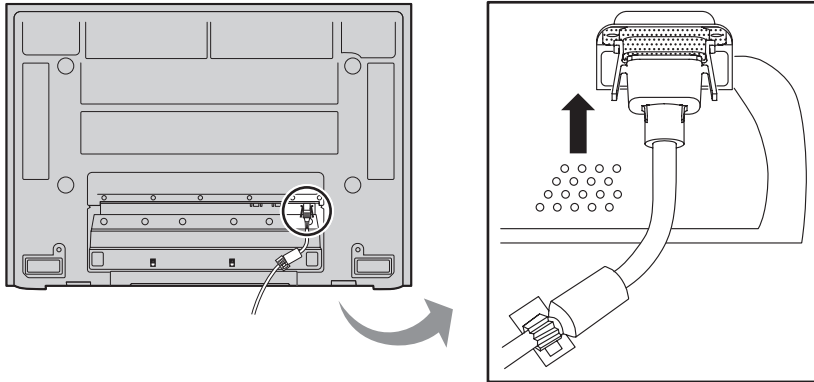
Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	**	Volume 00 - 63
AMT	0	Audio MUTE OFF
	1	Audio MUTE ON
IMS	None SL1 SL2 SL3 PC1 SL1A SL1B SL2A SL2B	Input select (toggle) Slot1 input Slot2 input Slot3 input PC input Slot1 input (INPUT1A) Slot1 input (INPUT1B) Slot2 input (INPUT2A) Slot2 input (INPUT2B)
DAM	None ZOOM FULL JUST NORM SELF SJST SNOM SFUL	Screen mode select (toggle) ZOOM FULL JUST 4:3 Panasonic Auto JUST 4:3 H-FILL

With the power off, this display responds to PON command only.

# Power ON / OFF

## Connecting the AC cord plug to the Plasma Display.

Fix the AC cord plug securely to the Plasma Display with the clammer. (see page 9)



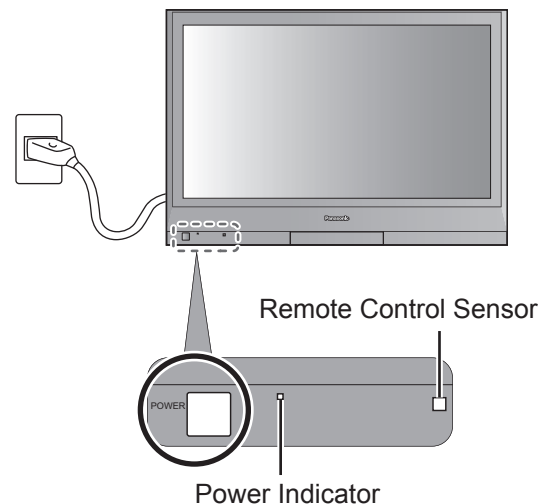
## Connecting the plug to the Wall Outlet.

### Note:

When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.


Press the Power switch on the Plasma Display to turn the set on: Power-On.

Power Indicator: Green




### POWER



Press the  button on the remote control to turn the Plasma Display off.

Power Indicator: Red (standby)

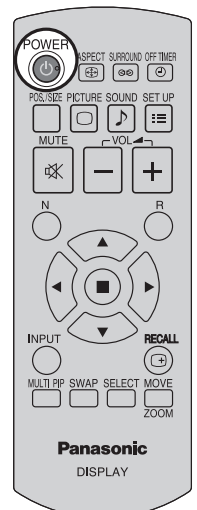
Press the  button on the remote control to turn the Plasma Display on.

Power Indicator: Green

Turn the power to the Plasma Display off by pressing the POWER switch on the unit, when the Plasma Display is on or in standby mode.

### Note:

During operation of the power management function, the power indicator turns orange in the power off state.



# Initial selections

## Selecting the input signal

Select the input signals to be connected by installing the optional Terminal Boards.

INPUT



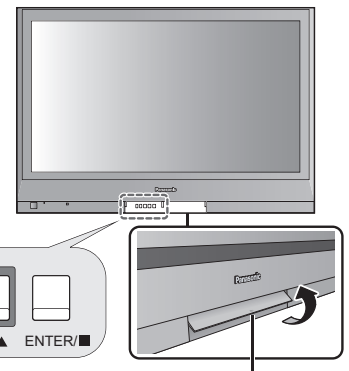
Press to select the input signal to be played back from the equipment which has been connected to the Plasma Display.

Input signals will change as follows:

→ INPUT1 → INPUT2 → INPUT3 → PC

### Notes:

- Selecting is also possible by pressing the INPUT button on the unit.
- Input terminal will not be selected if the terminal board is not installed into the SLOT.
- Select to match the signals from the source connected to the component/RGB input terminals. (see page 30)
- In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.
- Image retention (image lag) may occur on the plasma display panel when a still picture is kept on the panel for an extended period. The function that darkens the screen slightly is activated to prevent image retention (see page 40), but this function is not the perfect solution to image retention.



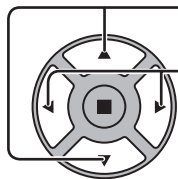
Swing up the door at "PULL".

## Selecting the On-Screen Menu Language

SET UP

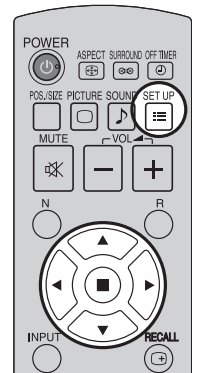


Press to display the SET UP menu.



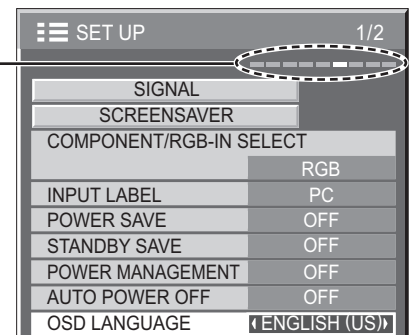
Press to select OSD LANGUAGE.

Press to select your preferred language.

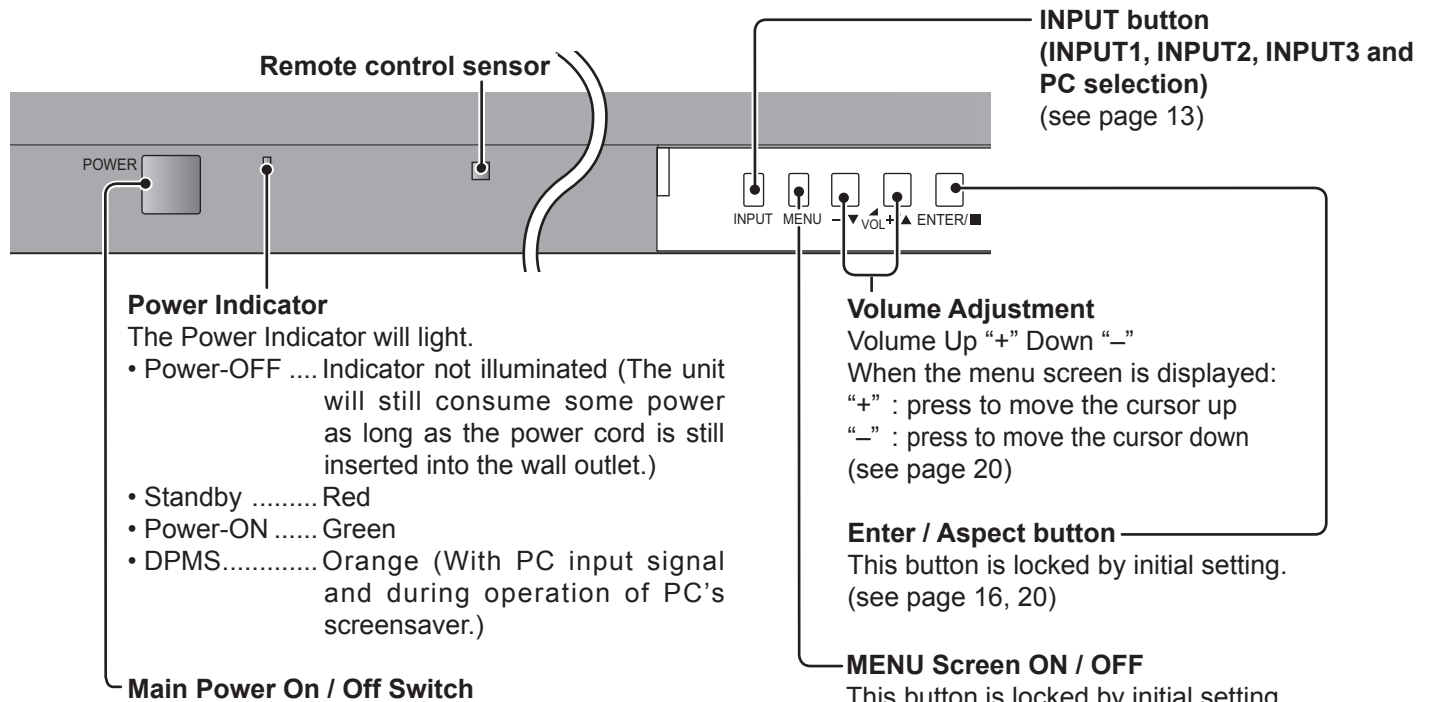


### ■ Selectable languages

English(UK)  
Deutsch  
Français  
Italiano  
Español  
ENGLISH(US)  
中文.....(Chinese)  
日本語.....(Japanese)  
Русский .....(Russian)



# Basic Controls



## How to release button lock

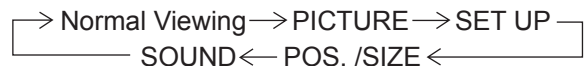
MENU and ENTER/■ buttons are locked before shipping.

You can unlock them with unit buttons.

1. Press +/▲ 4 times.
2. Press INPUT 4 times.
3. Press -/▼ 4 times.
4. Press ENTER/■.

### Note:

After unlocking the buttons, Button lock in OPTIONS menu is set to "Off". (see page 36)



## Remote Control Transmitter

The remote control is not included with this set. Available for purchase separately.

Object model : N2QAYB000178

### SURROUND button

The surround setting switches on and off each time the SURROUND button is pressed.

The benefits of surround sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema.

#### Note:

The surround settings are memorized separately for each AUDIO MENU (STANDARD, DYNAMIC, CLEAR).

ON  $\longleftrightarrow$  OFF

SURROUND ON

### ACTION button

Press to make selections.

### ASPECT button

Press to adjust the aspect.  
(see page 16)

### POWER button

The Plasma Display must first be plugged into the wall outlet and turned on at the power switch (see page 12). Press this button to turn the Plasma Display On, from Standby mode. Press it again to turn the Plasma Display Off to Standby mode.

### POS./SIZE button

(see page 21)

### PICTURE button

(see page 22)

### Sound mute On / Off

Press this button to mute the sound. Press again to reactivate sound. Sound is also reactivated when power is turned off or volume level is changed.

### N button

(see page 21, 22, 23, 24)

### POSITION buttons

### INPUT button

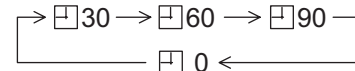
Press to select INPUT1, INPUT2, INPUT3 and PC input SLOTS sequentially. (see page 13)  
When a dual input terminal board is attached, A or B is displayed depending on the selected input signal. (Ex. INPUT1A, INPUT1B)

### MULTI Window buttons

(see page 17)

### OFF TIMER button

The Plasma Display can be preset to switch to stand-by after a fixed period. The setting changes to 30 minutes, 60 minutes, 90 minutes and 0 minutes (off timer cancelled) each time the button is pressed.



When three minutes remain, "OFF TIMER 3" will flash.

The off timer is cancelled if a power interruption occurs.

**SET UP button** (see page 20)

**SOUND button** (see page 24)

### Volume Adjustment

Press the Volume Up "+" or Down "-" button to increase or decrease the sound volume level.

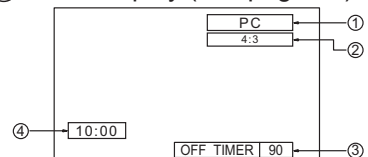
**R button** (see page 20)

Press the R button to return to previous menu screen.

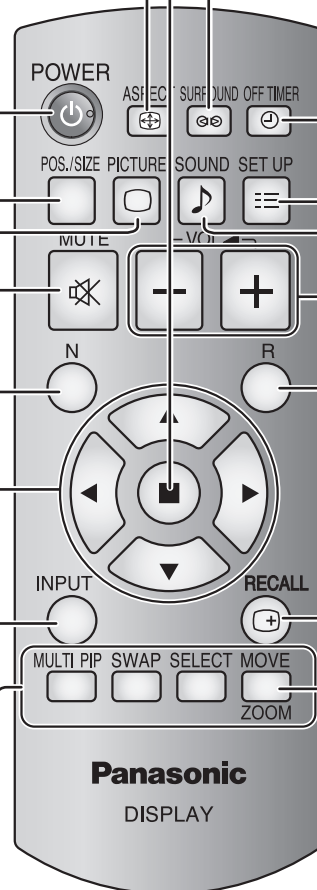
### RECALL button

Press the "RECALL" button to display the current system status.

- ① Input label
- ② Aspect mode (see page 16)
- ③ Off timer
- ④ Clock display (see page 37)



**Digital Zoom** (see page 19)





# ASPECT Controls

The Plasma Display will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.

ASPECT



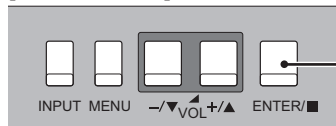
Press repeatedly to move through the aspect options:

For details about the aspect mode, please see "List of Aspect Modes" (page 41).

For VIDEO (S VIDEO) signal input:

→ 4:3 → ZOOM → Panasonic AUTO → JUST ← FULL ←

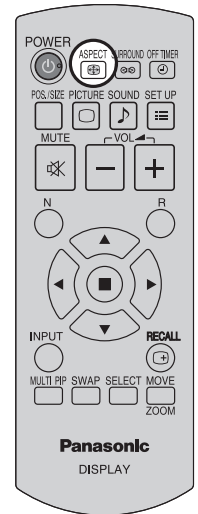
[from the unit]



## Note:

When selecting an input slot that attaches BNC Dual Video Terminal Board (TY-FB9BD), Panasonic AUTO cannot be selected.

The aspect mode changes each time the ENTER button is pressed.



For PC signal input:

→ 4:3 → ZOOM → FULL →

For SD signal input (525 (480) / 60i • 60p, 625 (575) / 50i • 50p):

→ 4:3 → ZOOM → FULL → JUST →

For HD signal input [1125 (1080) / 60i • 50i • 60p • 50p • 24p • 25p • 30p • 24sF, 1250 (1080) / 50i, 750 (720) / 60p • 50p]:

→ 4:3 → H-FILL → ZOOM → FULL → JUST →

[During MULTI PIP Operations]

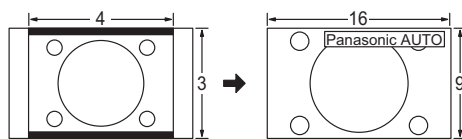
- Picture and Picture, Picture in Picture : → 4:3 → FULL →
- Others : Aspect switching is not possible.

## Notes:

- Panasonic AUTO can be selected only during Video signal input.
- The aspect mode is memorized separately for each input terminal.
- Do not allow the picture to be displayed in 4:3 mode for an extended period, as this can cause a permanent image retention to remain on the Plasma Display Panel.

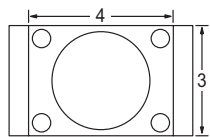
## Panasonic AUTO

The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size.



For letter box image

Image is expanded



For a 4:3 image

Changes in accordance with the Panasonic AUTO mode setting (see page 32).

## Notes:

- Panasonic AUTO mode is designed to automatically adjust the aspect ratio to handle a mix of 16:9 and 4:3 program material. Certain 4:3 program material, such as stock market data screens, may occasionally cause the image size to change unexpectedly. When viewing such programs, it is recommended that the ASPECT be set to 4:3.
- If adjusting the PICTURE V-POS/V-SIZE in Panasonic AUTO with FULL mode, the adjustment is not memorized. When exiting the mode, the screen will return to a former adjustment.

## All Aspect mode

Set "All Aspect" to "On" in Options menu to enable the extended aspect mode (page 37). When All Aspect mode, the aspect mode of pictures is switched as follows. For details about the aspect mode, please see "List of Aspect Modes" (page 41).

For VIDEO (S VIDEO) signal input:

→ 4:3 → Zoom1 → Zoom2 → Zoom3 → Panasonic Auto → 16:9 → 14:9 → Just →

## Notes:

- When selecting an input slot that attaches BNC Dual Video Terminal Board (TY-FB9BD), Panasonic Auto cannot be selected.
- In All Aspect mode, "Panasonic AUTO" is displayed as "Panasonic Auto".

For PC signal input:

→ 4:3 → Zoom → 16:9

For SD signal input (525 (480) / 60i • 60p, 625 (575) / 50i • 50p):

→ 4:3 → Zoom1 → Zoom2 → Zoom3 → 16:9 → 14:9 → Just

For HD signal input [1125 (1080) / 60i • 50i • 60p • 50p • 24p • 25p • 30p • 24sF, 1250 (1080) / 50i, 750 (720) / 60p • 50p]:

→ 4:3 Full → Zoom1 → Zoom2 → Zoom3 → 16:9 → 14:9 → Just1 → Just2 → 4:3 (1) → 4:3 (2)

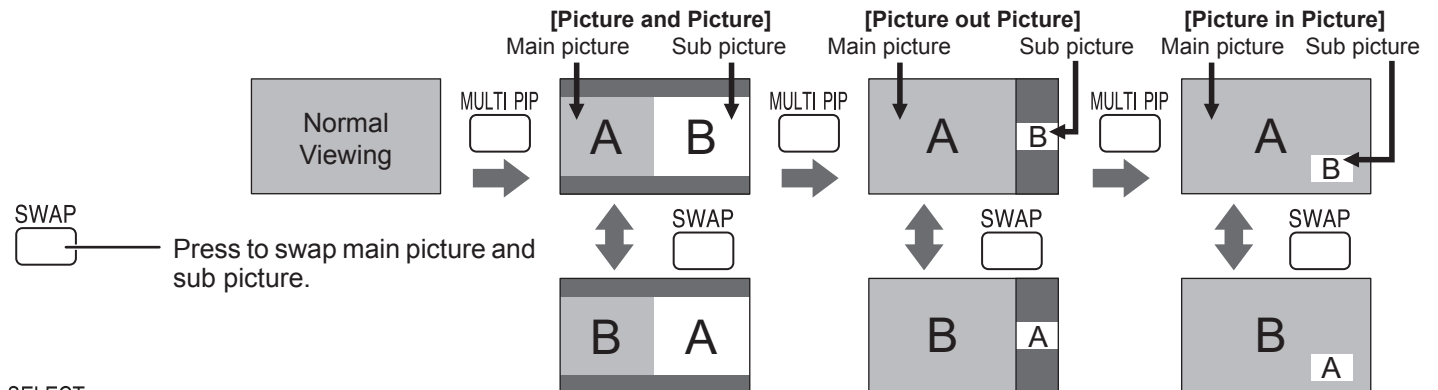
## MULTI PIP

MULTI PIP



Press repeatedly.

Each time pressing this button main picture and sub picture will be displayed as follows below.



SWAP



Press to swap main picture and sub picture.

SELECT



Press to select the input mode.

Under main Picture and sub picture display, select the picture which you would like to change input modes.

### Notes:

- The sub picture sound is heard while a sub picture operation is underway.
- The sub picture operation automatically returns to the main picture operation if a sub picture operation has not been performed for about 5 seconds or if any of the remote control buttons is pressed (except INPUT button).

INPUT



Press to change input signal.

MOVE



ZOOM

Press to move the sub picture.

Each time the location of the sub picture will be moved.

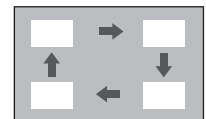
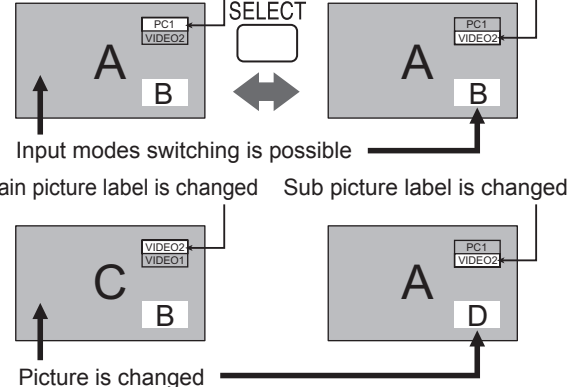
### Notes:

- This button is effective only in the picture in picture.
- The sub picture may be hidden by the on screen display, depending on its position.

### [Example]

Main picture label is bright

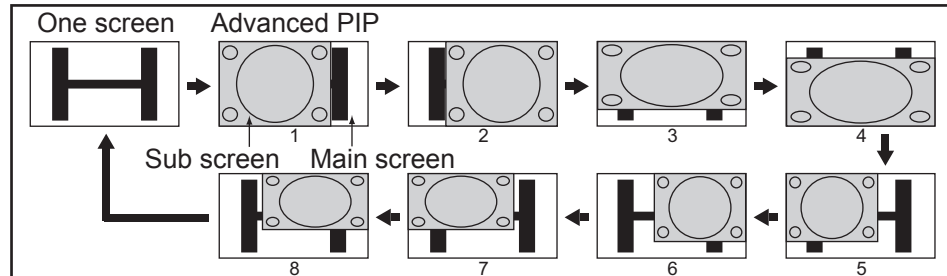
Sub picture label is bright








# Advanced PIP

**1** Set "Advanced PIP" to "On" in Options menu. (see page 36)

**2**  Press repeatedly.  
Each time pressing this button main picture and sub picture will be displayed as follows.



### Notes:

- To use , , , buttons for the screen operations, follow the procedures in the previous page.
- , and  buttons are invalid during Advanced PIP operation.

### Notes:

- If "INPUT lock" in Options menu is set to other than "Off", MULTI PIP function isn't available.
- Sound output is from the picture which is selected in Audio OUT (PIP) (see page 24).
- In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.
- The main picture and sub picture are processed by different circuits, resulting in a slight difference in the clarity of the pictures. There may also be a difference in the picture quality of the sub picture depending on the type of signals displayed on the main picture and depending on the 2-picture display mode.
- Due to the small dimensions of the sub pictures, these sub pictures cannot be shown in detail.
- Computer screen picture is displayed in a simplified format, and it may not be possible to discern details on them satisfactorily.
- Following combinations of two analog signals cannot be displayed simultaneously;  
Component - Component, Component - PC (RGB), PC (RGB) - Component, PC (RGB) - PC (RGB)

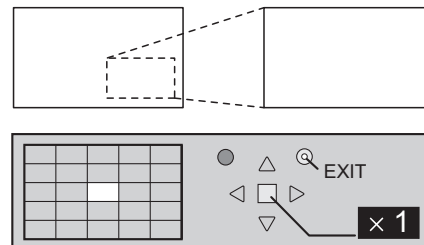
# Digital Zoom

This displays an enlargement of the designated part of the displayed image.

## 1 Display the operation guide.

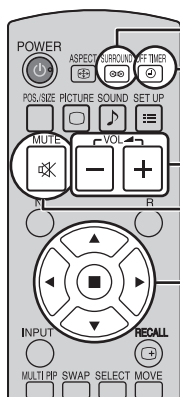


Press to access Digital Zoom.  
The operation guide will be displayed.



**During Digital Zoom, only the following buttons can be operated.**

[Remote control]



SURROUND button

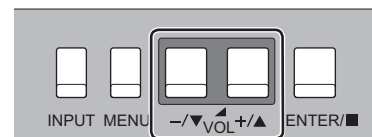
OFF TIMER button

VOL button

MUTE button

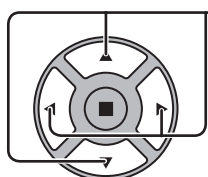
POSITION /  
ACTION button

[Unit]



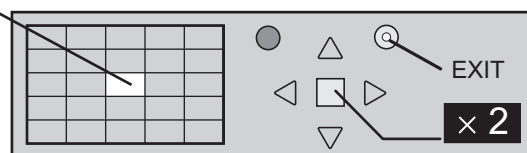
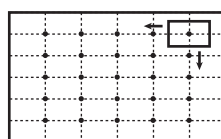
VOL button

## 2 Select the area of the image to be enlarged.

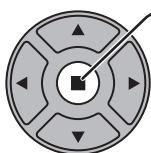


Press on the enlargement location to select.

The cursor will move.



## 3 Select the magnification required for the enlarged display.



Each time this is pressed, the magnification factor changes.  
This is shown in the image being displayed.



## 4 Return to normal display (quit Digital Zoom).



Press to exit from the Digital Zoom.

### Notes:

- When power goes OFF (including "Off Timer" operation), Digital Zoom terminates.
- The Digital Zoom function cannot be selected while in the following operation state:  
"Multi-viewer" (Picture in Picture, Picture out Picture, Picture and Picture) operation. (see page 17)  
When SCREENSAVER (except for NEGATIVE IMAGE) is running. (see page 26)
- While Digital Zoom is in operation, "Adjusting POS. /SIZE" cannot be used.

# On-Screen Menu Display

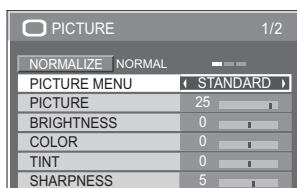
## Remote Control

### 1 Display the menu screen.



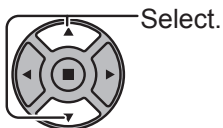
Press to select.  
(Example: PICTURE menu)

### 2 Select the item.

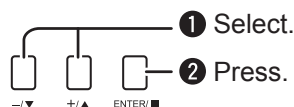


(Example: PICTURE menu)

### 3 Set.



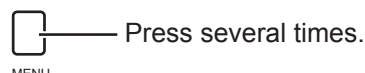
Select.



### 4 Exit the menu.

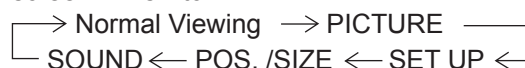


Press.  
Press to return to the previous menu.



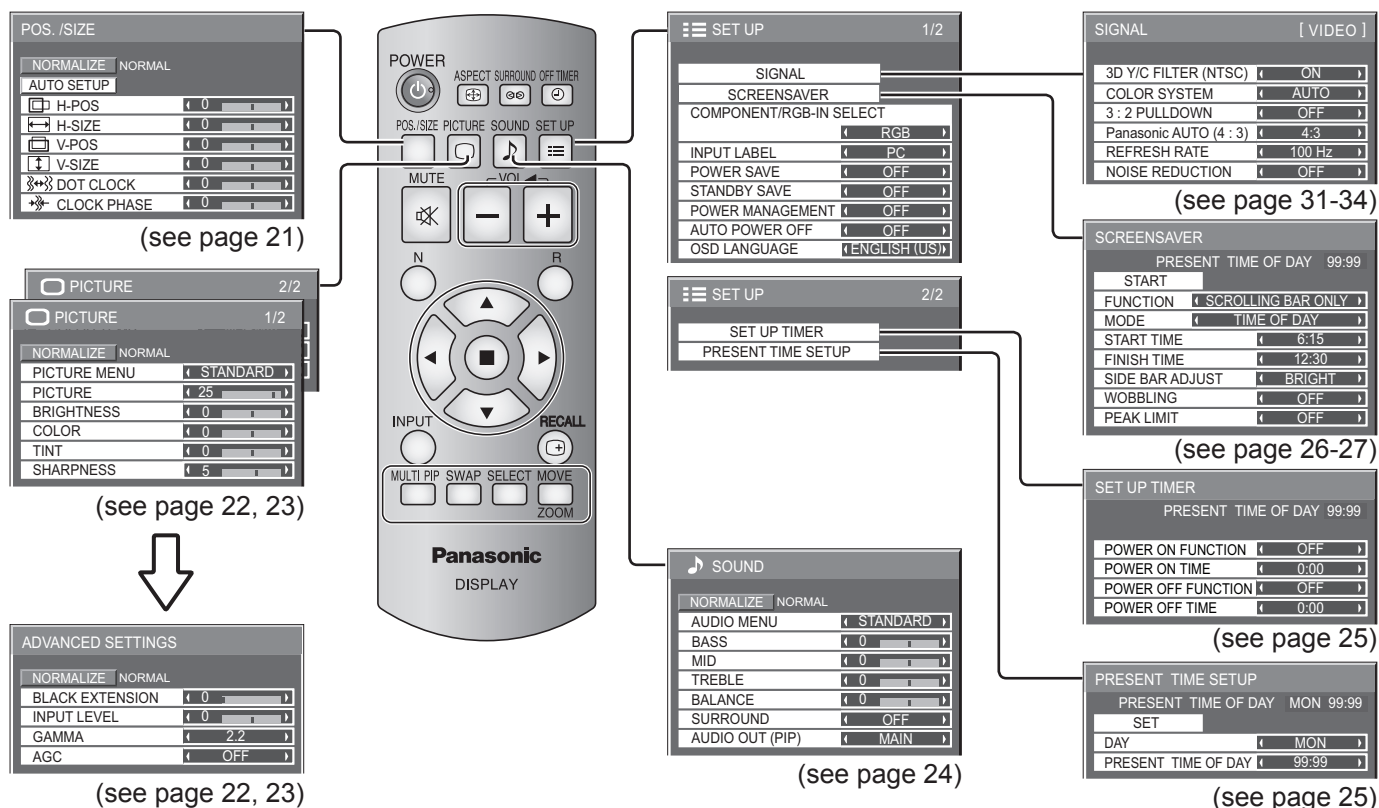
## Unit

Press several times.  
Each time the MENU button is pressed, the menu screen will switch.


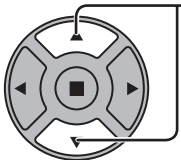
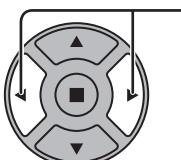



## Overview

**Note:** Menu that cannot be adjusted is grayout. Adjustable menu changes depending on signal, input and menu setting.



# Adjusting POS. /SIZE

- 1  Press to display the POS. /SIZE menu.
- 2  Press to select the menu to adjust.
- 3  Press to adjust the menu.
- 4  Press to exit from adjust mode.

## Notes:

- Unadjustable items are grayed out.
- Adjustable items differ depending on the input signal and the display mode.
- Adjustment details are memorized separately for different input signal formats. (Adjustments for component signals are memorized for 525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 1125 (1080) / 60i · 50i · 60p · 50p · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i, 750 (720) / 60p · 50p each, and RGB/PC/Digital signals are memorized for each frequency.)
- If a "Cue" or "Rew" signal from a VCR or DVD player is received, the picture position will shift up or down. This picture position movement cannot be controlled by the POS. /SIZE function.
- If adjusting the PICTURE V-POS / V-SIZE in Panasonic AUTO with FULL mode, the adjustment is not memorized. When exiting the mode, the screen will return to a former adjustment.

## AUTO SETUP

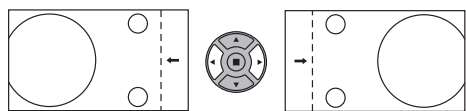
Automatically adjust H-POS / V-POS / CLOCK PHASE / DOT CLOCK and set H-SIZE / V-SIZE the standard value when RGB signal is input.

### Notes:

- If the dot clock frequency is 108 MHz or higher, DOT CLOCK cannot be made.
- If the image is that the edge is hardly figured out or shadowy, that cannot be adjusted automatically. In such case, press AUTO SETUP again after changing the image to the clearer one.
- When DVI-D is input, CLOCK PHASE cannot be adjusted automatically.
- Select NORMALIZE in POS. /SIZE and press the ACTION (■) button when appropriate adjustment cannot be made.

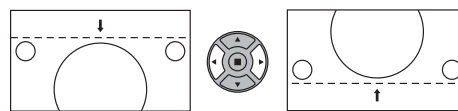
## H-POS

Adjust the horizontal position.



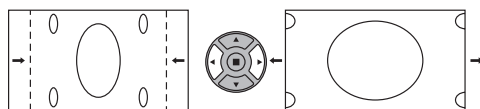
## V-POS

Adjust the vertical position.



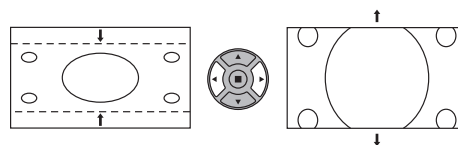
## H-SIZE

Adjust the horizontal size.



## V-SIZE

Adjust the vertical size.



## DOT CLOCK

(During "COMPONENT", "RGB" and "PC" input signal)

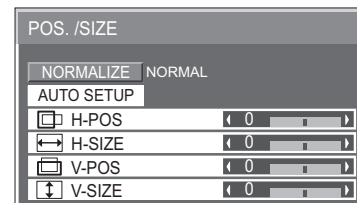
Periodic striped pattern interference (noise) may occur when a striped pattern is displayed. If this happens, adjust so that any such noise is minimized.

## CLOCK PHASE

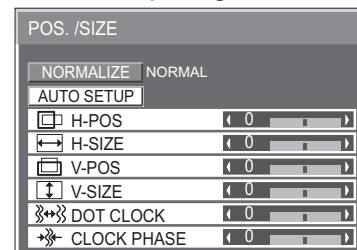
(During "COMPONENT", "RGB" and "PC" input signal)

Eliminate the flickering and distortion.

During "VIDEO (S VIDEO)", "Digital", "SDI" and "HDMI" input signal.




During "COMPONENT", "RGB" and "PC" input signal.



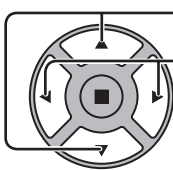
## Helpful Hint ( / **NORMALIZE** Normalization)

While the POS. /SIZE display is active, if either the N button on the remote control is pressed at any time or the ACTION (■) button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

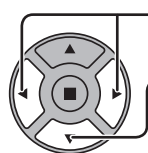
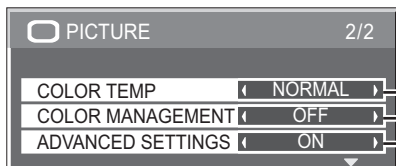
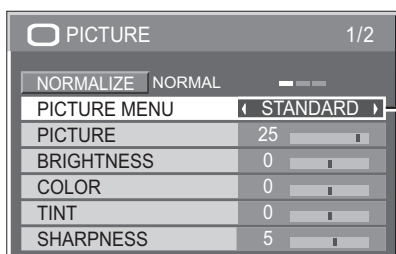
# PICTURE Adjustments

**1**  Press to display the PICTURE menu.

**2** Select to adjust each item.

 Press to select the menu to adjust.  
Select the desired level by looking at the picture behind the menu.

**Note:**  
Menu that cannot be adjusted is grayout. Adjustable menu changes depending on signal, input and menu setting.

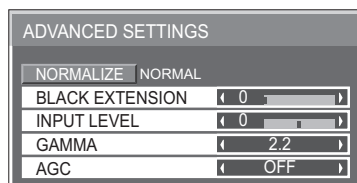


Press to select "ON".

Press to enter Advanced Settings.

## ADVANCED SETTINGS ON

Enables fine picture adjustment at a professional level (see next page).



## ADVANCED SETTINGS OFF

Displays images with settings of the PICTURE menu.

Press the left ◀ or right ▶ button to switch between modes.

→ STANDARD ← → DYNAMIC ←  
→ CINEMA ←

## STANDARD

For viewing in standard (evening lighting) environments. This menu selects the normal levels of BRIGHTNESS and PICTURE.

## DYNAMIC

For viewing in brighter environments. This menu selects higher than normal levels of BRIGHTNESS and PICTURE.

## CINEMA

Ideal for movies.

## Note:

If you would like to change the picture and color of the selected PICTURE menu to something else, adjust using the items in the PICTURE menu. (see next page)

Press the left ◀ or right ▶ button to switch between modes.

→ NORMAL ← → COOL ← → WARM ←

## COLOR MANAGEMENT ON

Enables vivid color adjustment automatically.

## Helpful Hint ( / NORMALIZE Normalization)

While the "PICTURE" menu is displayed, if either the N button on the remote control is pressed at any time or the ACTION (■) button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.



Item	Effect	Adjustments
<b>PICTURE</b>	<div> <div>◀</div> <div>▶</div> <div>Less</div> <div>More</div> </div>	Adjusts the proper picture contrast.
<b>BRIGHTNESS</b>	<div> <div>◀</div> <div>▶</div> <div>Darker</div> <div>Brighter</div> </div>	Adjusts for easier viewing of dark pictures such as night scenes and black hair.
<b>COLOR</b>	<div> <div>◀</div> <div>▶</div> <div>Less</div> <div>More</div> </div>	Adjusts color saturation.
<b>TINT</b>	<div> <div>◀</div> <div>▶</div> <div>Reddish</div> <div>Greenish</div> </div>	Adjusts for natural flesh tones.
<b>SHARPNESS</b>	<div> <div>◀</div> <div>▶</div> <div>Less</div> <div>More</div> </div>	Adjusts picture sharpness.

## Notes:

- “COLOR” and “TINT” settings cannot be adjusted for “RGB/PC” and “Digital” input signal.
- You can change the level of each function (PICTURE, BRIGHTNESS, COLOR, TINT, SHARPNESS) for each PICTURE MENU.
- The setting details for STANDARD, DYNAMIC and CINEMA respectively are memorized separately for each input terminal.
- The “TINT” setting can be adjusted for NTSC signal only during “VIDEO (S VIDEO)” input signal.
- In PICTURE, there is not a noticeable change even when contrast is increased with a bright picture or reduced with a dark picture.

## ADVANCED SETTINGS

Item	Effect	Details
<b>BLACK EXTENSION</b>	<div> <div>◀</div> <div>▶</div> <div>Less</div> <div>More</div> </div>	Adjusts the dark shades of the image in gradation.
<b>INPUT LEVEL</b>	<div> <div>◀</div> <div>▶</div> <div>Less</div> <div>More</div> </div>	Adjustment of parts which are extremely bright and hard to see. (This cannot be adjusted when the input signal is Digital.)
<b>GAMMA</b>	<div> <div>◀</div> <div>▶</div> <div>Down</div> <div>Up</div> </div>	S CURVE ◀→ 2.0 ◀→ 2.2 ◀→ 2.5
<b>AGC</b>	<div> <div>◀</div> <div>▶</div> <div>OFF</div> <div>ON</div> </div>	Increases the brightness of dark signal automatically.


## Notes:

- The adjustment values are memorized separately for each input terminal.
- The adjustment range values should be used as an adjustment reference.

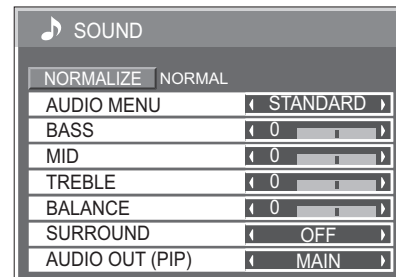
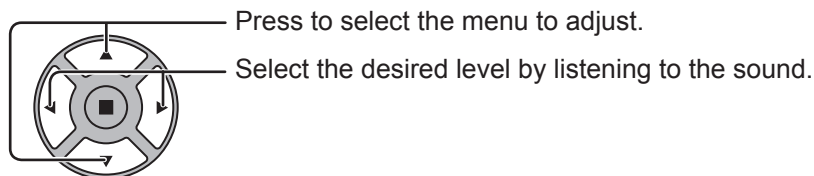
## Helpful Hint ( / **NORMALIZE** Normalization)

On the remote control unit, while the “ADVANCED SETTINGS” menu is displayed, if either the N button is pressed at any time or the ACTION (■) button is pressed during “NORMALIZE”, then all adjustment values are returned to the factory settings.

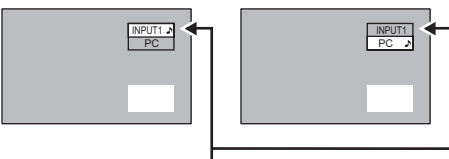
# SOUND Adjustment

**1**  Press to display the SOUND menu.

**2** Select to adjust each item.




**3**  Press to exit from adjust mode.

Item	Details
<b>AUDIO MENU</b>	<b>STANDARD:</b> Emits the original sound. <b>DYNAMIC:</b> Accentuates sharp sound. <b>CLEAR:</b> Attenuates human voice.
<b>BASS</b>	Adjusts low pitch sounds.
<b>MID</b>	Adjusts normal sounds.
<b>TREBLE</b>	Adjusts pitch sound.
<b>BALANCE</b>	Adjusts left and right volumes.
<b>SURROUND</b>	Select ON or OFF.
<b>AUDIO OUT (PIP)</b>	<b>MAIN:</b> Selects main picture sound. <b>SUB:</b> Selects PIP frame sound. <div style="display: flex; align-items: center; justify-content: center; margin-top: 10px;">  </div>

**Note:** BASS, MID, TREBLE and SURROUND settings are memorized separately for each AUDIO MENU.


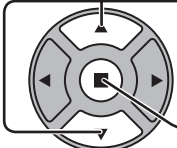
## Helpful Hint ( / **NORMALIZE** Normalization)

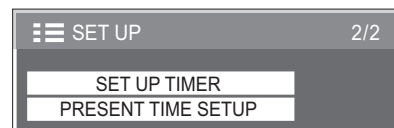
While the "SOUND" menu is displayed, if either the N button on the remote control is pressed at any time or the ACTION () button is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

# PRESENT TIME SETUP / SET UP TIMER

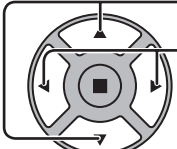
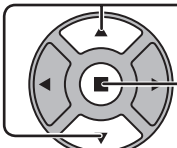
The timer can switch the Plasma Display ON or OFF.

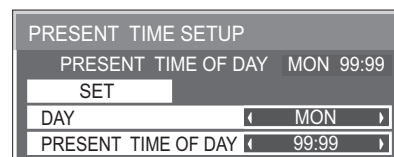
Before attempting Timer Set, confirm the PRESENT TIME OF DAY and adjust if necessary.  
Then set POWER ON TIME / POWER OFF TIME.

-  Press to display the SET UP menu.
-  Press to select SET UP TIMER or PRESENT TIME SETUP.  
Press to display the SET UP TIMER screen or PRESENT TIME SETUP screen.

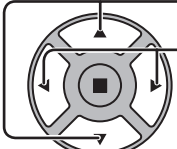
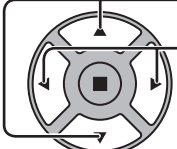


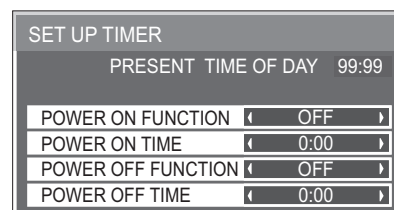
## PRESENT TIME SETUP

-  Press to select DAY or PRESENT TIME OF DAY.  
Press to set up DAY or PRESENT TIME OF DAY.  
▶ button: Forward  
◀ button: Back  
**Notes:**
  - Pressing "◀" or "▶" button once changes PRESENT TIME OF DAY 1 minute.
  - Pressing "◀" or "▶" button continuously changes PRESENT TIME OF DAY by 15 minutes.
-  Press to select SET.  
Press to store PRESENT TIME SETUP.  
**Notes:**
  - SET cannot be selected unless PRESENT TIME OF DAY is set.
  - Unless setting the present time other than "99:99", DAY setting is invalid.
  - The settings of "DAY" and "PRESENT TIME OF DAY" are reset when leaving the display turned off for about 7 days for the following reasons:
    - Pressing POWER switch of the unit to turn off the display.
    - Disconnecting the AC cord.
    - Interruption of power supply.




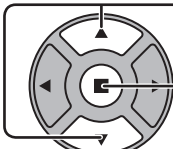
## SET UP TIMER

-  Press to select POWER ON TIME / POWER OFF TIME.  
Press to set up POWER ON TIME / POWER OFF TIME.  
▶ button: Forward  
◀ button: Back  
**Notes:**
  - Pressing "◀" or "▶" button once changes POWER ON TIME / POWER OFF TIME 1 minute.
  - Pressing "◀" or "▶" button continuously changes POWER ON TIME / POWER OFF TIME by 15 minutes.
-  Press to select POWER ON FUNCTION / POWER OFF FUNCTION.  
Press to select ON.  
**Note:**  
Timer function will not work unless "PRESENT TIME OF DAY" is set.

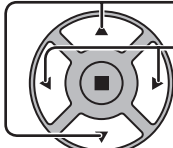


# SCREENSAVER (For preventing image retention)

Do not display a still picture, especially in 4:3 mode, for any length of time.  
If the display must remain on, a SCREENSAVER should be used.

- 1  Press to display the SET UP menu.
- 2  Press to select the SCREENSAVER.  
Press to select the SCREENSAVER screen.

## 3 FUNCTION selection

- 3  Press to select the FUNCTION.  
Press to select the desired function.

NEGATIVE IMAGE : A negative image will be displayed on the screen.

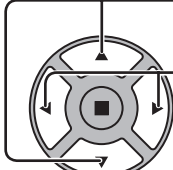
SCROLLING BAR ONLY : A white bar will scroll from left to right. The image won't be displayed.

OVERLAY SCROLLING BAR : The brightness of the image will be decreased and a white bar will scroll on it.

WHITE SCREEN : The whole screen will be white.

**Note:** OVERLAY SCROLLING BAR is not effective during two screen display.

## 4 MODE selection

- 4  Press to select the MODE.  
Press to select each mode items.

Off

INTERVAL

TIME OF DAY

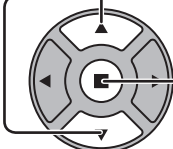
ON

: Operates when SHOW DURATION and SAVER DURATION are set up and those times arrive.

: Operates when START TIME and FINISH TIME are set up and those times arrive.

: Operates when START is selected and the ACTION (■) button is pressed.

## 5 START setting

- 5  When the MODE is set to ON, press to select START.  
Press to start SCREENSAVER.

The menu screen will disappear and the SCREENSAVER will be activated. **To stop the SCREENSAVER under ON, press the R button or any buttons on the main unit.**

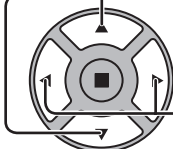
**Note:** When the display is turned off, the SCREENSAVER will be deactivated.

SET UP 1/2	
SIGNAL	
SCREENSAVER	
COMPONENT/RGB-IN SELECT	
	RGB
INPUT LABEL	PC
POWER SAVE	OFF
STANDBY SAVE	OFF
POWER MANAGEMENT	OFF
AUTO POWER OFF	OFF
OSD LANGUAGE	ENGLISH (US)

SCREENSAVER	
PRESENT TIME OF DAY 99:99	
START	
FUNCTION	SCROLLING BAR ONLY
MODE	OFF
START TIME	6:15
FINISH TIME	12:30
SIDE BAR ADJUST	BRIGHT
WOBBLING	OFF
PEAK LIMIT	OFF

## Setup of SCREENSAVER Time

After selecting TIME OF DAY or INTERVAL, the relevant Time Setup will become available for selection and the Operating Time may be set. (Time cannot be set when "MODE" is "ON" or "OFF".)

-  Press to select START TIME / FINISH TIME (When TIME OF DAY is selected).  
Press to select SHOW DURATION / SAVER DURATION (When INTERVAL is selected).  
Press to setup.  
▶ button: Forward  
◀ button: Back

### Notes:

- Pressing "◀" or "▶" button once changes the Time 1 minute.  
[However, switching occurs every 15 minutes when Periodic Time is selected.]
- Pressing "◀" or "▶" button continuously changes the Time by 15 minutes.

**Note:** Timer function will not work unless "PRESENT TIME OF DAY" is set.

SCREENSAVER	
PRESENT TIME OF DAY 15:00	
START	
FUNCTION	SCROLLING BAR ONLY
MODE	TIME OF DAY
START TIME	6:15
FINISH TIME	12:30

SCREENSAVER	
PRESENT TIME OF DAY 15:00	
START	
FUNCTION	SCROLLING BAR ONLY
MODE	INTERVAL
SHOW DURATION	12:00
SAVER DURATION	3:00

## Reduces screen image retention

These functions prevent the occurrence of an “image retention” on the display when turned ON.

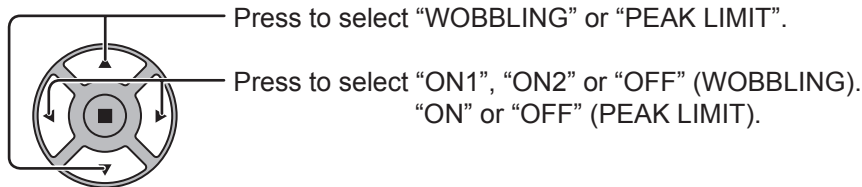
WOBBLING: Automatically shifts the display image (therefore unnoticeable to the eye) to prevent image retention of sharper contour of image.

ON1: Shifts the image every 30 seconds.

ON2: Shifts the image at a dot level pitch depending on screen-detection.

PEAK LIMIT: Suppresses image contrast (peak brightness).

**Note:** When a still picture is viewed for an extended time, the screen may become slightly darker. (see page 40)

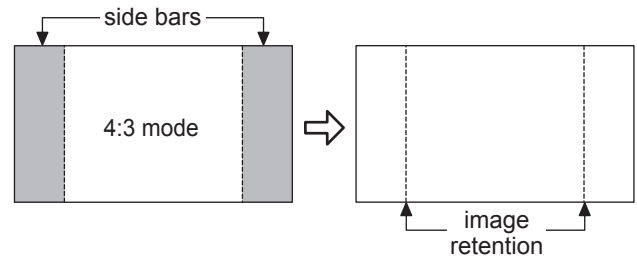


SCREENSAVER	
PRESENT TIME OF DAY 99:99	
START	
FUNCTION	SCROLLING BAR ONLY
MODE	OFF
START TIME	6:15
FINISH TIME	12:30
SIDE BAR ADJUST	BRIGHT
WOBBLING	OFF
PEAK LIMIT	OFF

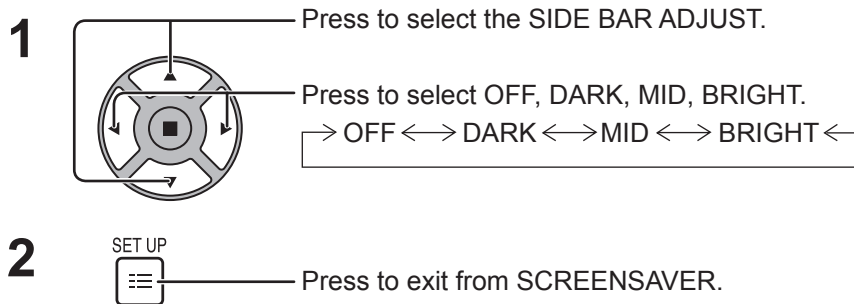
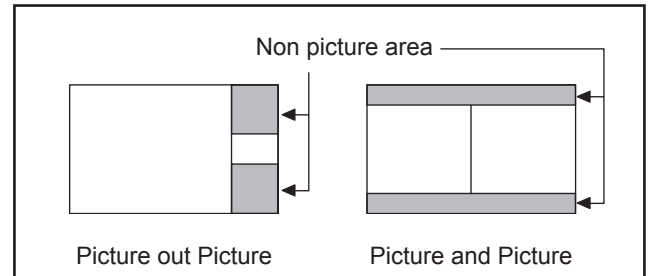
## SIDE BAR ADJUST

Do not display a picture in 4:3 mode for an extended period, as this can cause an image retention to remain on the side bars on either side of the display field.

To reduce the risk of such an image retention, illuminate the side bars.



This function may be applicable to the non-picture area.



SCREENSAVER	
PRESENT TIME OF DAY 99:99	
START	
FUNCTION	SCROLLING BAR ONLY
MODE	OFF
START TIME	6:15
FINISH TIME	12:30
SIDE BAR ADJUST	BRIGHT
WOBBLING	OFF
PEAK LIMIT	OFF

### Notes:

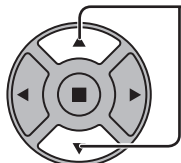
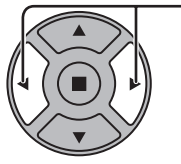

- To reduce the occurrence of image retention, set the SIDE BAR ADJUST to BRIGHT.
- The side bar may flash (alternate black/white) depending on the picture being shown on the screen. Using Cinema mode will reduce such flashing.

# Reduces power consumption

- **POWER SAVE:** When this function is turned ON, luminous level of the Plasma Display is suppressed, so power consumption is reduced.
- **STANDBY SAVE:** When this function is turned ON, power consumption of the microcomputer is reduced during power supply standby (see page 12, 14, 15), so standby power of the set is reduced.
- **POWER MANAGEMENT:** When this function is set to ON, it operates under the following conditions to turn the power on or off automatically.  
 When no pictures (HD/VD sync signals) are detected for 30 or so seconds during PC IN signal input:  
 → Power is turned off (standby); the power indicator lights up orange.  
 When pictures (HD/VD sync signals) are subsequently detected:  
 → Power is turned on; the power indicator lights up green.
- **AUTO POWER OFF:** Equipment power supply is turned OFF when there is no signal.  
 When this is set to On, the power supply of the unit goes Off 10 minutes after the input signals stop.

## Notes:

- This function operates only during PC IN signal input.
  - This function is invalid during input from PC Input Terminal Board (TY-42TM6P).
  - This function is effective when "SYNC" is set to "AUTO", "COMPONENT / RGB-IN SELECT" is set to "RGB" and during normal viewing (one picture screen).
- Notes:**
- This function operates only during PC IN signal input.
  - This function is effective when "SYNC" is set to "AUTO", "COMPONENT / RGB-IN SELECT" is set to "RGB" and during normal viewing (one picture screen).

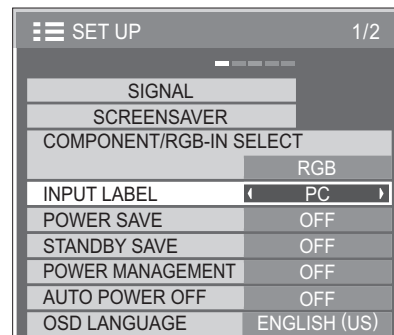
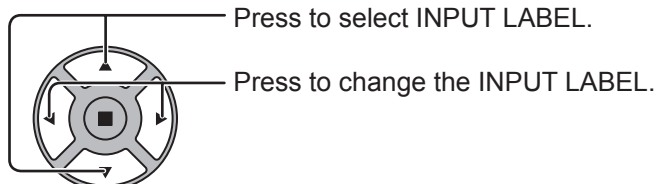
- 1  Press to select  
"POWER SAVE"  
"STANDBY SAVE"  
"POWER MANAGEMENT"  
"AUTO POWER OFF".
- 2  Press to select "ON" or "OFF".  
On ← → Off
- 3  Press to exit from SET UP.

SET UP		1/2
SIGNAL		
SCREENSAVER		
COMPONENT/RGB-IN SELECT		
	RGB	
INPUT LABEL		PC
POWER SAVE	OFF	
STANDBY SAVE	OFF	
POWER MANAGEMENT	OFF	
AUTO POWER OFF	OFF	
OSD LANGUAGE		ENGLISH (US)

# Customizing the Input labels

This function can change the label of the Input signal to be displayed.

Select the input signal which you would like to change its label before customizing the Input labels. (see page 13, 15)



## Note:

While selecting a Input signal through Optional Terminal Board connected to Slot 1, Slot 2 and Slot 3, the Input label will depend on each Optional Terminal Board.

INPUT LABELS for Slot 1, Slot 2, Slot 3 and Mini D-sub:

[Slot1 Input]	INPUT1/VIDEO1/COMPONENT1/RGB1/DIGITAL1/PC1/DVD1/CATV1/VCR1/STB1
[Slot2 Input]	INPUT2/VIDEO2/COMPONENT2/RGB2/DIGITAL2/PC2/DVD2/CATV2/VCR2/STB2
[Slot3 Input]	INPUT3/VIDEO3/COMPONENT3/RGB3/PC3/DVD3/CATV3/VCR3/STB3
[PC (Mini D-sub) input]	PC/COMPONENT/RGB/DVD/STB

When BNC Dual Video Terminal Board (TY-FB9BD) is used, an “A” or “B” is added at the end of each input label, depending on the input selected (see below).

Addition sign	“A”	“B”
Selected Input	Composite	S VIDEO




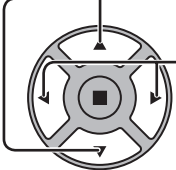

# SET UP for Input Signals

## COMPONENT / RGB IN SELECT

Select to match the signals from the source connected to the COMPONENT / RGB input terminals.

Y, P<sub>B</sub>, P<sub>R</sub> signals ⇒ “COMPONENT”

RGB signals ⇒ “RGB”

-  Press to display the SET UP menu.
-  Press to select the “COMPONENT / RGB-IN SELECT”.  
Press to select the desired mode.  
COMPONENT ← → RGB
-  Press to exit from adjust mode.

SET UP 1/2	
SIGNAL	
SCREENSAVER	
COMPONENT/RGB-IN SELECT	RGB
INPUT LABEL	PC
POWER SAVE	OFF
STANDBY SAVE	OFF
POWER MANAGEMENT	OFF
AUTO POWER OFF	OFF
OSD LANGUAGE	ENGLISH (US)

### Notes:


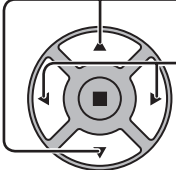

- Selection may not be possible, depending on which optional board is installed.
- Make setting of the selected input terminal (SLOT1, SLOT2, SLOT3 or PC IN).

## YUV / RGB IN SELECT

Select to match the signals from the source connected to the DVI input terminals.

YUV signals ⇒ “YUV”

RGB signals ⇒ “RGB”

-  Press to display the SET UP menu.
-  Press to select the “YUV / RGB-IN SELECT”.  
Press to select the desired mode.  
YUV ← → RGB
-  Press to exit from adjust mode.

SET UP 1/2	
SIGNAL	
SCREENSAVER	
YUV/RGB-IN SELECT	RGB
INPUT LABEL	PC
POWER SAVE	OFF
STANDBY SAVE	OFF
POWER MANAGEMENT	OFF
AUTO POWER OFF	OFF
OSD LANGUAGE	ENGLISH (US)


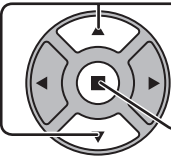
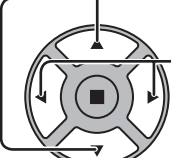

### Notes:

- Selection may not be possible, depending on which optional board is installed.
- Make setting of the selected input terminal (SLOT1 or SLOT2).

## SIGNAL menu

### Note:

"SIGNAL" setup menu displays a different setting condition for each input signal.

- 1  Press to display the SET UP menu.
- 2  Press to select the "SIGNAL".  
Press to display the SIGNAL menu.
- 3  Press to select the menu to adjust.  
Press to adjust the menu.
- 4  Press to exit from adjust mode.

SET UP 1/2	
SIGNAL	
SCREENSAVER	
COMPONENT/RGB-IN SELECT	
INPUT LABEL	RGB
POWER SAVE	OFF
STANDBY SAVE	OFF
POWER MANAGEMENT	OFF
AUTO POWER OFF	OFF
OSD LANGUAGE	ENGLISH (US)

### For VIDEO (S VIDEO)

SIGNAL [ VIDEO ]	
3D Y/C FILTER (NTSC)	ON
COLOR SYSTEM	AUTO
3 : 2 PULLDOWN	OFF
Panasonic AUTO (4 : 3)	4:3
REFRESH RATE	100 Hz
NOISE REDUCTION	OFF

### For RGB

SIGNAL [ RGB ]	
SYNC	AUTO
3 : 2 PULLDOWN	OFF
XGA MODE	1024 x 768
REFRESH RATE	100 Hz
NOISE REDUCTION	OFF
H-FREQ. 63.98	kHz
V-FREQ. 60.02	Hz
SIGNAL FORMAT 1280x1024/60	

### For COMPONENT

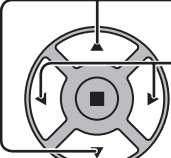

SIGNAL [ COMPONENT ]	
3 : 2 PULLDOWN	OFF
XGA MODE	1024 x 768
REFRESH RATE	100 Hz
NOISE REDUCTION	OFF
H-FREQ. 63.98	kHz
V-FREQ. 60.02	Hz
SIGNAL FORMAT 1280x1024/60	

### For Digital

SIGNAL [ Digital ]	
3 : 2 PULLDOWN	OFF
REFRESH RATE	100 Hz
NOISE REDUCTION	OFF
H-FREQ. 63.98	kHz
V-FREQ. 60.02	Hz
SIGNAL FORMAT 1280x1024/60	

## 3D Y/C FILTER – For NTSC AV images

Select "SIGNAL" from the "SET UP" menu during VIDEO (S VIDEO) input signal mode.  
("SIGNAL [VIDEO]" menu is displayed.)

-  Press to select the "3D Y/C FILTER (NTSC)".
-  Press to set ON / OFF.

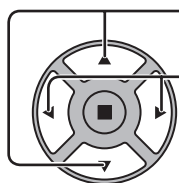
3D Y/C FILTER (NTSC)	ON
----------------------	----

### Note:

When ON, this setting only affects NTSC input signals.

# COLOR SYSTEM / Panasonic AUTO

Select SIGNAL from the “SET UP” menu during VIDEO (S VIDEO) input signal mode. (“SIGNAL [VIDEO]” menu is displayed.)

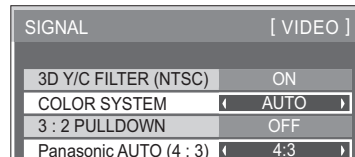


Press to select the “COLOR SYSTEM” or “Panasonic AUTO”.

Press to select each function.

### If the image becomes unstable:

With the system set on Auto, under conditions of low level or noisy input signals the image may in rare cases become unstable. Should this occur, set the system to match the format of the input signal.



Mode	Function
<b>COLOR SYSTEM</b>	Set the color system to match the input signal. When selecting “AUTO”, the color system is automatically selected from NTSC/PAL/SECAM, however, M.NTSC signal is not displayed properly depending on the attached terminal board. To display M.NTSC signal, select “M.NTSC” in COLOR SYSTEM. <div>→ AUTO ←→ PAL ←→ SECAM ←→ M.NTSC ←→ NTSC ←</div>
<b>Panasonic AUTO (4 : 3)</b>	Set to “4:3” to view 4:3 images in an unchanged format when Panasonic AUTO is selected. If you would like to view 4:3 images in Just format, set to “JUST”.

### Note:

Panasonic AUTO does not function when BNC Dual Video Terminal Board (TY-FB9BD) is used.

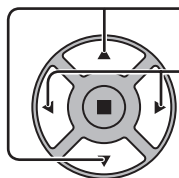
## 3:2 PULLDOWN

**3:2 PULLDOWN:** When ON, the display attempts to reproduce a more natural interpretation of sources such as movie pictures, which are recorded at 24 frames per second. If the picture is not stable, turn the setting to OFF.

### Notes:

When ON, this setting only affects the following signal input:

- NTSC / PAL signal input during “VIDEO (S VIDEO)” input signal.
- 525i(480i), 625i(575i), 1125(1080)/60i signal input during “COMPONENT” input signal.



Press to select “3:2 PULLDOWN”.

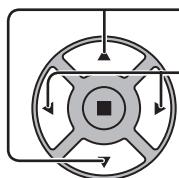
Press to set ON/OFF.



## XGA MODE

This menu is displayed when the input signal is analog (Component/PC). This unit supports three types of XGA signals with 60Hz vertical frequency having different aspect ratios and sampling rates (1,024 × 768 @ 60Hz, 1,280 × 768 @ 60Hz, and 1,366 × 768 @ 60Hz). Be sure to make settings in accordance with the input signal in order to achieve a more appropriate and attractive display.

In addition, after making this setting, be sure to make each adjustment (such as “AUTO SETUP”) on the “POS. /SIZE” menu as necessary. (see page 21)



Press to select “XGA MODE”.

Press to select “1024×768”, “1280×768”, “1366×768”.



## REFRESH RATE

This function sets the refresh rate of the display.

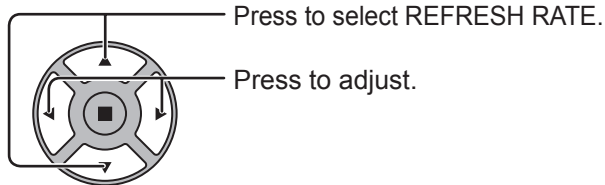
This menu is displayed when the input signal is 50 Hz system (50i, 50p, 25p, 24p, 24sF) of vertical scan rate.

100 Hz: Reduce screen flicker.

50 Hz: Enhance the resolution of moving images.

### Note:

It is recommended to set to 100 Hz normally.

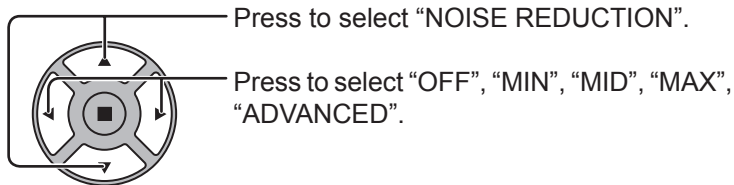


REFRESH RATE ◀ 100 Hz ▶

## NOISE REDUCTION

Sets the following three NR (Noise Reduction) functions together.

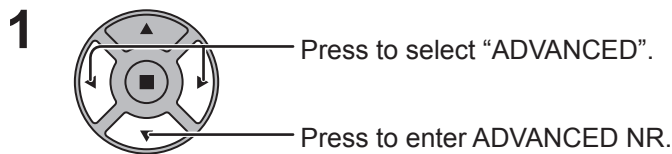
VIDEO NR, MOSQUITO NR, BLOCK NR



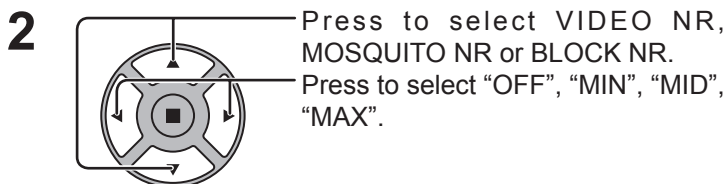
NOISE REDUCTION ◀ OFF ▶

### Advanced NR

Sets the three NR functions separately.



NOISE REDUCTION ◀ ADVANCED ▶



ADVANCED NR [ VIDEO ]	
VIDEO NR	◀ OFF ▶
MOSQUITO NR	◀ OFF ▶
BLOCK NR	◀ OFF ▶

ADVANCED NR [ RGB ]	
VIDEO NR	◀ OFF ▶
MOSQUITO NR	◀ OFF ▶
BLOCK NR	◀ OFF ▶

ADVANCED NR [ COMPONENT ]	
VIDEO NR	◀ OFF ▶
MOSQUITO NR	◀ OFF ▶
BLOCK NR	◀ OFF ▶

ADVANCED NR [ Digital ]	
VIDEO NR	◀ OFF ▶
MOSQUITO NR	◀ OFF ▶
BLOCK NR	◀ OFF ▶

**VIDEO NR:** Automatically reduces unwanted picture noise.

**MOSQUITO NR:** Reduces mosquito noise around subtitles on MPEG videos.

**BLOCK NR:** Reduces block noise when playing MPEG videos.

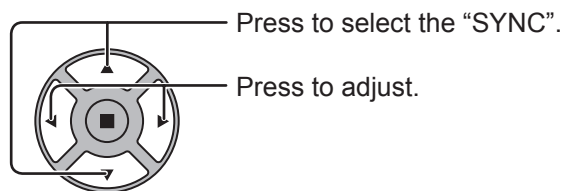
### Notes:

- NOISE REDUCTION cannot be adjusted while a PC signal is being applied.
- BLOCK NR cannot be adjusted while a HD signal is being applied.

## SET UP for Input Signals

### SYNC

Select SIGNAL from the “SET UP” menu during RGB input signal.



SIGNAL [ RGB ]	
SYNC	AUTO
3 : 2 PULLDOWN	OFF
XGA MODE	1024 × 768

#### Setting RGB sync signal

Confirm that the input is set to RGB INPUT (this setting is valid only for RGB INPUT signal).

- AUTO: The H and V sync or synchronized signal are automatically selected. If both input, it is selected the H and V sync.
- ON G: Uses a synchronized signal on the Video G signal, which is input from the G connector.
- VBS: Uses a synchronized signal of Composite Sync input, which is input from the HD connector.

SYNC	AUTO
↕	
SYNC	ON G
↕	
SYNC	VBS

## Input signal display

**Displays the frequency and the type of the current input signal.**




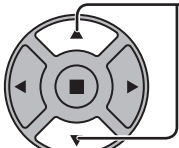
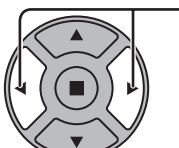

This display is valid only for COMPONENT/RGB/PC and Digital input signal.

Display range:

- Horizontal 15 - 110 kHz
- Vertical 48 - 120 Hz

H-FREQ.	63.98	kHz
V-FREQ.	60.02	Hz
SIGNAL FORMAT	1280×1024/60	




# Options Adjustments

- 1  Press to display the SET UP menu.
- 2  Press to select "OSD LANGUAGE".
- 3  Press and hold until the Options menu is displayed.
- 4  Press to select your preferred menu.
- 5  Press to adjust the menu.
- 6  Press to exit from Options menu.

























Options 1/3	
Weekly Command Timer	
Onscreen display	On
Initial INPUT	Off
Initial VOL level	Off 0
Maximum VOL level	Off 0
INPUT lock	Off
Button lock	Off
Remocon User level	Off
Advanced PIP	Off

Options 2/3	
Off-timer function	Enable
Initial Power Mode	Normal
ID select	0
Remote ID	Off
Serial ID	Off



Options 3/3	
Slot power	Off
Power On Screen Delay	Off
Clock Display	Off
All Aspect	Off
Serial Slot Select	Slot1

Item	Adjustments
<b>Weekly Command Timer</b>	Sets Weekly Command Timer. (see page 38)
<b>Onscreen display</b>	<b>On:</b> Displays all the following on screen. <ul style="list-style-type: none"> <li>• Power on display</li> <li>• Input signal switch display</li> <li>• No signal display</li> <li>• Mute and the remaining time of off-timer after  was pressed.</li> </ul> <b>Off:</b> Hides all the items above from view.
<b>Initial INPUT</b>	<b>Off &lt;=&gt; PC &lt;=&gt; INPUT1 &lt;=&gt; INPUT2 &lt;=&gt; INPUT3</b> Adjusts the input signal when the unit is turned on. <b>Notes:</b> <ul style="list-style-type: none"> <li>• Only the adjusted signal is displayed. (see page 13)</li> <li>• Signal can be displayed when the Terminal board is installed.</li> <li>• This menu is available only when "INPUT lock" is "Off".</li> <li>• When a dual input terminal board is attached, A or B is displayed depending on the selected input signal. (Ex. INPUT1A, INPUT1B)</li> </ul>
<b>Initial VOL level</b>	Press  button to adjust the volume when the unit is turned on. <b>Off &lt;=&gt; On</b> <b>Off:</b> Sets normal volume. <b>On:</b> Sets your preferred volume. <b>Notes:</b> <ul style="list-style-type: none"> <li>• When "Maximum VOL level" is "On", the volume can only be adjusted between 0 and your maximum range.</li> <li>• You can hear the changed volume regardless of your volume setting before opening the options menu if you adjust the volume when "Initial VOL level" is "On" and cursor is on the menu.</li> </ul>
<b>Maximum VOL level</b>	Press  button to adjust the maximum volume. <b>Off &lt;=&gt; On</b> <b>Off:</b> Sets auto maximum volume. <b>On:</b> Sets your preferred maximum volume. <b>Notes:</b> <ul style="list-style-type: none"> <li>• If the "Maximum VOL level" is set lower than the "Initial VOL level", the "Initial VOL level" automatically becomes the same as the "Maximum VOL level".</li> <li>• The volume display can go up to 63 regardless of the settings.</li> <li>• You can hear the changed volume regardless of your volume setting before opening the options menu if you adjust the volume when "Maximum VOL level" is "On" and cursor is on the menu.</li> </ul>

# Options Adjustments



Item	Adjustments
<b>INPUT lock</b>	<b>Off ↔ PC ↔ INPUT1 ↔ INPUT2 ↔ INPUT3</b> Locks the input switch operation. <b>Notes:</b> <ul style="list-style-type: none"> <li>Only the adjusted signal is displayed (see page 13).</li> <li>Signal can be displayed when the Terminal board is installed.</li> <li>Input switch can be used when this is set to "Off".</li> <li>In two screen display mode, if anything other than "Off" is set, the value will be fixed as the value input in the single screen display mode.</li> <li>When a dual input terminal board is attached, A or B is displayed depending on the selected input signal. (Ex. INPUT1A, INPUT1B)</li> </ul>
<b>Button lock</b>	<b>Off ↔ MENU&amp;ENTER ↔ On</b> <b>Off:</b> All the buttons on main unit can be used. <b>MENU&amp;ENTER:</b> Locks  and  buttons on main unit. <b>On:</b> Locks all the button on main unit. Sets Button lock with the unit buttons in the following procedure. <b>Off:</b> Press  four times → Press  four times → Press  four times → Press  <b>MENU&amp;ENTER:</b> Press  four times → Press  four times → Press  four times → Press  <b>On:</b> Press  four times → Press  four times → Press  four times → Press 
<b>Remocon User level</b>	<b>Off ↔ User1 ↔ User2 ↔ User3</b> <b>Off:</b> You can use all of the buttons on the remote control. <b>User1:</b> You can only use  ,  ,  ,  ,  ,  buttons on the remote control. <b>User2:</b> You can only use  button on the remote control. <b>User3:</b> Locks all the buttons on remote control.
<b>Advanced PIP</b>	<b>Off:</b> Sets normal two screen display mode (see page 17). <b>On:</b> Sets Advanced PIP mode (see page 18). <b>Notes:</b> <ul style="list-style-type: none"> <li>When "INPUT lock" is "On", you cannot use all the two screen display functions.</li> <li>, ,  buttons are unavailable during Advanced PIP mode operation.</li> </ul>
<b>Off-timer function</b>	<b>Enable:</b> Enables the "Off-timer function". <b>Disable:</b> Disables the "Off-timer function". <b>Note:</b> When "Disable" is set, the Off-timer is cancelled.
<b>Initial Power Mode</b>	<b>Normal ↔ Standby ↔ On</b> Sets the power mode of the unit for when the power recovers from failure or after plugging off and in again. <b>Normal:</b> Power returns in as the same state as before the power interruption. <b>Standby:</b> Power returns in standby mode. (Power Indicator : red/orange) <b>On:</b> Power returns in power On. (Power Indicator : green) <b>Note:</b> When using multiple displays, "Standby" is preferred to be set in order to reduce a power load.
<b>ID select</b>	Sets panel ID number when panel is used in "Remote ID" or "Serial ID". Set value range: 0 - 100 (Standard value: 0)
<b>Remote ID</b>	The setting of this menu is valid only when using ID remote control. <b>Off:</b> Disables ID remote control functions. You can use normal remote control operations. <b>On:</b> Enable ID remote control functions.
<b>Serial ID</b>	Sets the panel ID Control. <b>Off:</b> Disables external control by the ID. <b>On:</b> Enables the external control by the ID.
<b>Slot Power</b>	<b>Off ↔ Auto ↔ On</b> <b>Off:</b> Power is not transmitted to the slot power. <b>Auto:</b> Power is transmitted to the slot power only when main power is on. <b>On:</b> Power is transmitted to the slot power when main power is on or in the standby state. <b>Note:</b> In some cases, power is transmitted to the slot power when main power is on or in the standby state regardless of the slot power setting.



Item	Adjustments
<b>Power On Screen Delay</b>	<p><b>Off</b> ↔ 1 ↔ 2 ↔ 3... ↔ 30</p> <p>You can set the power-on delay time of the displays to reduce the power load, when you press POWER switch to turn on the multiple displays that are set together. Set each display's setting individually.</p> <p><b>Off:</b> The display will be turned on at the same time as POWER switch is pressed.</p> <p><b>1 to 30 (sec.):</b> Set the power-on delay time (second). After pressing POWER switch, the display will be powered on with time delay depending on this setting.</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• During this function is working, the power indicator is blinking green.</li> <li>• This function also works when the power recovers from failure or after plugging off and in again the power cord.</li> </ul> <p>After you unplug and plug the power cord in while the unit is in standby mode and also the power is being supplied to a terminal board, the unit will start supplying the power to the board with time delay according to the setting.</p> <p>The power indicator lights up red first and it turns orange when the power starts being supplied to the board.</p>
<b>Clock Display</b>	<p><b>Off:</b> Not display the clock.</p> <p><b>On:</b> Display the clock.</p> <p>The clock is displayed at the lower left of the screen when  button is pressed.</p> <div data-bbox="441 766 725 932" data-label="Image"> </div> <p><b>Note:</b> When "PRESENT TIME SETUP" is not set, the clock is not displayed even if "Clock Display" is "On" (see page 25)</p>
<b>All Aspect</b>	<p>Sets All Aspect mode (advanced aspect setting) or default aspect mode.</p> <p>With each press of  button, the aspect changes in the selected mode.</p> <p><b>Off:</b> Default aspect mode</p> <p><b>On:</b> All Aspect mode</p> <p>Aspect mode of each setting is as follows: (Example: HD signal)</p> <p><b>Off</b> 4:3→H-FILL→ZOOM→FULL→JUST</p> <p><b>On</b> 4:3 (1)→4:3 (2)→4:3 Full→Zoom1→Zoom2→Zoom3→16:9→14:9→Just1→Just2</p>
<b>Serial Slot Select</b>	<p><b>Slot1</b> ↔ <b>Slot2</b> ↔ <b>Slot3</b></p> <p>Selects the slot which communicates serial.</p> <p><b>Note:</b> The setting of an external command can be set only from the fixed serial terminal. (see page 11)</p>

## Normalization

When both main unit buttons and remote control are disabled due to the "Button lock", "Remocon User level" or "Remote ID" adjustments, set all the values "Off" so that all the buttons are enabled again.

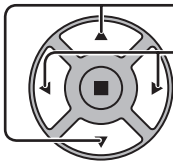
Press the  button on main unit together with  button on the remote control and hold for more than 5 seconds. The "SHIPPING" menu is displayed and the lock is released when it disappears.

## Weekly Command Timer

You can set 7-day timer programming by setting time and command.

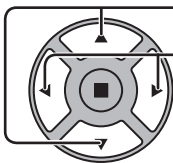
### Note:

Before setting Weekly Command Timer, set PRESENT TIME SETUP. (see page 25)

- 1 
  - Press to select Function.
  - Press to select "On".

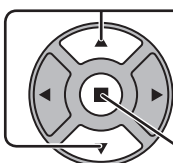
**Note:**

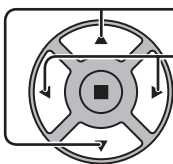
  - When Function is set to On, SET UP TIMER (see page 25) is unavailable and INTERVAL / TIME OF DAY in MODE of SCREENSAVER (see page 26) cannot be selected.

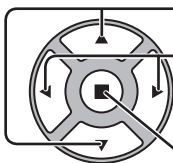
- 2 
  - Press to select a day.
  - Press to select a program number.

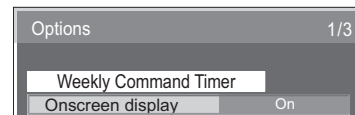
**Note:**

  - You can set the program from 1 to 7. --- indicates unset.

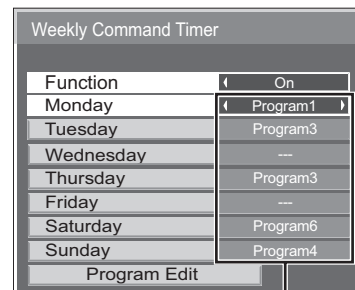
- 3 
  - Press to select Program Edit.
  - Press to show the Program Edit screen.

- 4 
  - Press to select Program.
  - Press to change the program numbers (1-7).

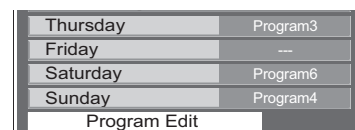
- 5 
  - Press to select a command number.
  - Press to show the previous / next command pages (1-8) of the selected program.
  - Press to show the command setting screen.



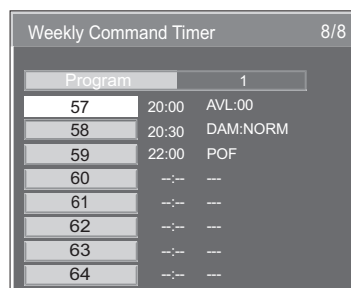
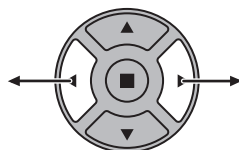
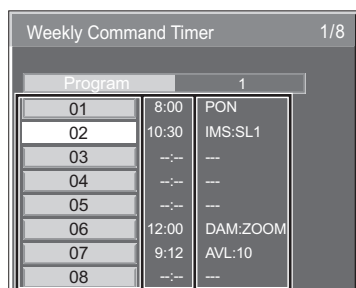
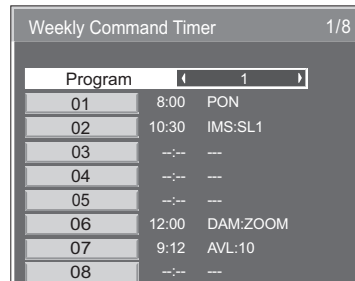
Press ACTION (■) button



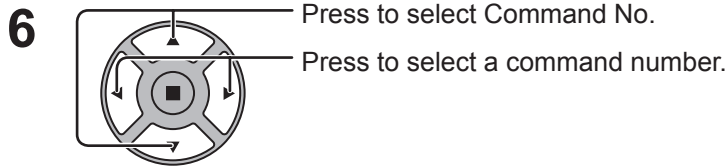
Program number



Program Edit screen

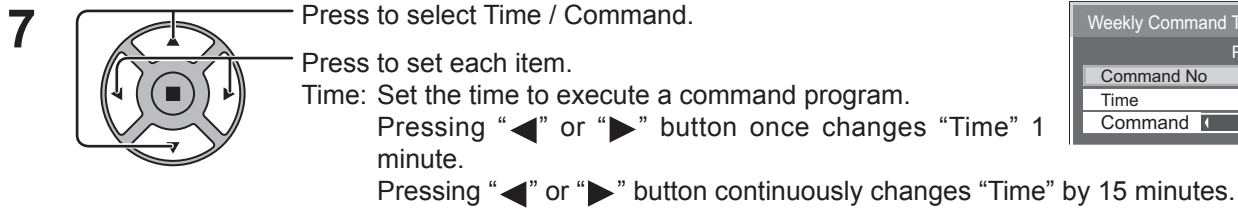


Command (--- indicates unset)  
Set time of timer (---:-- indicates unset)  
Command numbers



Command setting screen


Weekly Command Timer	
Program	1
Command No	02
Time	10:30
Command	IMS:SL1




Weekly Command Timer	
Program	1
Command No	02
Time	10:30
Command	IMS:SL1

Command: Select a command to execute at the set time. This unit has 64 commands to set. (see page 43)

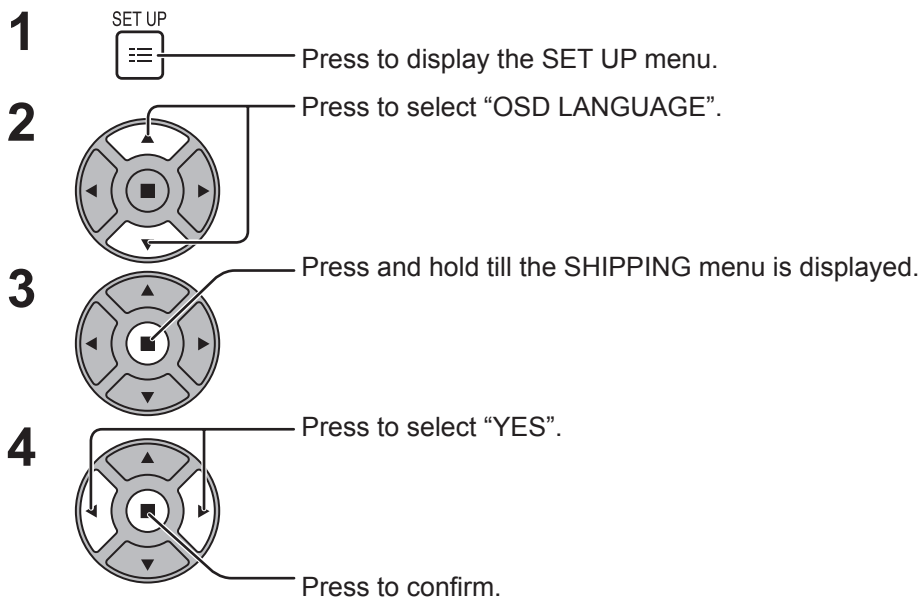
## Notes:

- Command is performed in order of execution time, regardless of the command number.
- If a command execution time overlaps with that of other commands, these commands are performed in number order.
- Pressing , Time becomes --:-- and Command becomes ---.

**Note:**  
Press  to return to the previous screen.

## Shipping condition

This function allows you to reset the unit to the factory setting.



SET UP 1/2	
SIGNAL	
SCREENSAVER	
COMPONENT/RGB-IN SELECT	
	RGB
INPUT LABEL	PC
POWER SAVE	OFF
STANDBY SAVE	OFF
POWER MANAGEMENT	OFF
AUTO POWER OFF	OFF
OSD LANGUAGE	ENGLISH (US)

SHIPPING	YES
----------	-----

[from the unit]











- 1 Press the MENU button till the SET UP menu is displayed.
- 2 Press the Volume Up "+" or Down "-" button to select "OSD LANGUAGE".
- 3 Press and hold the ENTER button till the SHIPPING menu is displayed.
- 4 Press the Volume Up "+" or Down "-" button to select "YES".
- 5 Press the ENTER button and wait for 10 sec.

## Note:


Press the R button to return to SET UP menu when SHIPPING menu is displayed.

# Troubleshooting

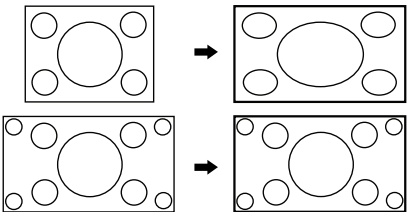
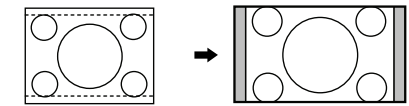
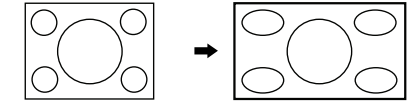
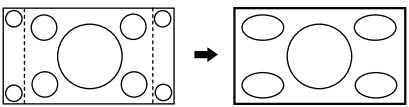
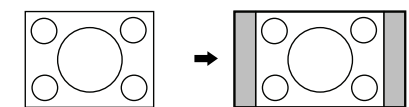
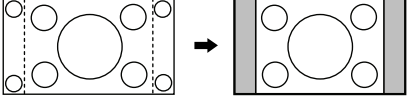
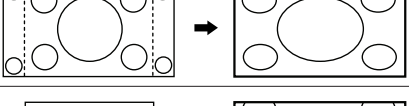
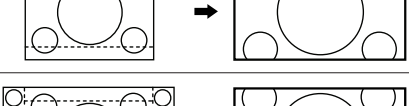
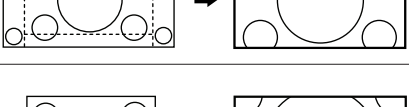
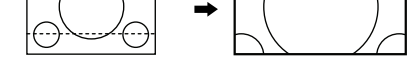
**Before you call for service, determine the symptoms and make a few simple checks as shown below.**

Symptoms		Checks
Picture	Sound	
 Interference	 Noisy Sound	Electrical Appliances Cars / Motorcycles Fluorescent light
 Normal Picture	 No Sound	Volume (Check whether the mute function has been activated on the remote control.)
 No Picture	 No Sound	Not plugged into AC outlet Not switched on PICTURE and BRIGHTNESS/Volume setting (Check by pressing the power switch or stand-by button on the remote control.)
 No Picture	 Normal Sound	If a signal with a non-applicable color system format, or frequency is input, only the input terminal indication is displayed.
 No Color	 Normal Sound	Color controls set at minimum level. (see page 22, 23) COLOR SYSTEM (see page 32)
No remote control operations can be performed.		Check whether the batteries have discharged completely and, if they have not, whether they were inserted properly. Check whether the remote control sensor is exposed to an outdoor light or a strong fluorescent light. Check whether the remote control designed specifically for use with the unit is being used. (The unit cannot be operated by any other remote control.)
A cracking sound is sometimes heard from the unit.		If there is nothing wrong with the picture or sound, this is the sound of the cabinet undergoing very slight contractions in response to changes in the room temperature. There are no adverse effects on the performance or other aspects.
The top or bottom of the picture on the screen is cut off when I use the zoom function.		Adjust the position of the picture on the screen.
Areas at the top and bottom of the screen where the image is missing appear when I use the zoom function.		When using a video software program (such as a cinema size program) with a screen wider than one in the 16:9 mode, blank areas separate from the images are formed at the top and bottom of the screen.
I can hear sounds coming from inside the unit.		When the power is turned on, a sound of the display panel being driven may be heard: This is normal and not indicative of malfunctioning.
This Plasma Display uses special image processing. Hence a slight time lag may occur between image and audio, depending on the type of input signal. However, this is not a malfunction.		

## Plasma Display panel

Symptoms	Check
The screen darkens slightly when bright pictures with minimal movements are shown.	The screen will darken slightly when photos, still images of a computer or other pictures with minimal movements are shown for an extended period. This is done to reduce image retention on the screen and the shortening of the screen's service life: It is normal and not indicative of malfunctioning.
It takes a while for the picture to appear.	The unit digitally processes the various signals in order to reproduce esthetically pleasing images. As such, it sometimes takes a few moments for the picture to appear when the power has been turned on, when the input has been switched or when the images for the main picture and sub picture on the two screens are swapped.
The edges of the images flicker.	Due to the characteristics of the system used to drive the panel, the edges may appear to flicker in the fast-moving parts of the images: This is normal and not indicative of malfunctioning.
The brightness on both sides of images in 4:3 mode changes.	When viewing the side panels at the "BRIGHT" or "MID" setting, the brightness on both sides may change depending on the kind of program shown: This is normal and not indicative of malfunctioning.
Some parts of the screen do not light up.	The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction.
 <p>Image retention appears</p>	<p>Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display. Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.</p> <p><b>Note:</b> The permanent image retention on the Plasma Display resulting from fixed image use is not an operating defect and as such is not covered by the Warranty. This product is not designed to display fixed images for extended periods of time.</p>

# List of Aspect Modes

Aspect mode		Picture → Enlarged screen	Description
All Aspect: On	Factory setting All Aspect: Off		
16:9	FULL		The display of the pictures fills the screen. In the case of SD signals, pictures with a 4:3 aspect ratio are enlarged horizontally, and displayed. This mode is suited to displaying anamorphic pictures with a 16:9 aspect ratio.
14:9	–		Letterbox pictures with a 14:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen vertically and is slightly smaller than the screen horizontally. The top and bottom edges of the pictures are cut off. Side panels are displayed at the left and right edges of the screen.
Just ----- Just1	JUST		Pictures with a 4:3 aspect ratio are enlarged horizontally so that the picture distortion is minimized. The display of the areas around the left and right edges of the screen is slightly elongated.
Just2	JUST		Pictures with a 4:3 aspect ratio are enlarged horizontally so that the picture distortion is minimized. The left and right edges of the pictures are cut off. The display of the areas around the left and right edges of the screen is slightly elongated.
4:3 ----- 4:3 (1)	4:3		Pictures with a 4:3 aspect ratio are displayed with their original aspect ratio. Side panels are displayed at the left and right edges of the screen.
4:3 (2)	4:3		Pictures with a 4:3 aspect ratio are displayed with their original aspect ratio. The left and right edges of the pictures are masked by side panels.
4:3 Full	H-FILL		Pictures with a 4:3 aspect ratio are enlarged horizontally so that their display fills the screen. The left and right edges of the pictures are cut off.
Zoom ----- Zoom1	ZOOM		Letterbox pictures with a 16:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen. The top and bottom edges of the pictures are cut off.
Zoom2	ZOOM		Letterbox pictures with a 16:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen. The top and bottom edges as well as the left and right edges of the pictures are cut off.
Zoom3	–		Letterbox pictures with a 2.35:1 aspect ratio are enlarged vertically and horizontally so that their display fills the screen vertically and is slightly larger than the screen horizontally. The top and bottom edges as well as the left and right edges of the pictures are cut off.

# PC input signals

## Applicable input signals for Mini D-sub 15P (Component) / Mini D-sub 15P (RGB) (\* Mark)

	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	Dot clock frequency (MHz)	Mini D-sub 15P (Component)	Mini D-sub 15P (RGB)
1	525 (480) / 60i	15.73	59.94	13.5	*	*
2	525 (480) / 60p	31.47	59.94	27.0	*	* *4
3	625 (575) / 50i	15.63	50.00	13.5	*	*
4	625 (575) / 50p	31.25	50.00	27.0	*	*
5	750 (720) / 60p	45.00	60.00	74.25	*	*
6	750 (720) / 50p	37.50	50.00	74.25	*	*
7	1,125 (1,080) / 60p	67.50	60.00	148.5	*	* *1
8	1,125 (1,080) / 60i	33.75	60.00	74.25	*	* *1
9	1,125 (1,080) / 50p	56.26	50.00	148.5	*	* *1
10	1,125 (1,080) / 50i	28.13	50.00	74.25	*	* *1
11	1,125 (1,080) / 24sF	27.00	47.92	74.25	*	* *2
12	1,125 (1,080) / 30p	33.75	30.00	74.25	*	* *1
13	1,125 (1,080) / 25p	28.13	25.00	74.25	*	* *1
14	1,125 (1,080) / 24p	27.00	24.00	74.25	*	* *1
15	1,250 (1,080) / 50i	31.25	50.00	74.25	*	* *3
16	640 × 400 @70 Hz	31.46	70.07	25.17		*
17	640 × 480 @60 Hz	31.47	59.94	25.18		* *5
18	640 × 480 @72 Hz	37.86	72.81	31.5		*
19	640 × 480 @75 Hz	37.50	75.00	31.5		*
20	640 × 480 @85 Hz	43.27	85.01	36.0		*
21	852 × 480 @60 Hz	31.47	59.94	33.54		* *5
22	800 × 600 @56 Hz	35.16	56.25	36.0		*
23	800 × 600 @60 Hz	37.88	60.32	40.0		*
24	800 × 600 @72 Hz	48.08	72.19	50.0		*
25	800 × 600 @75 Hz	46.88	75.00	49.5		*
26	800 × 600 @85 Hz	53.67	85.06	56.25		*
27	1,024 × 768 @60 Hz	48.36	60.00	65.0		*
28	1,024 × 768 @70 Hz	56.48	70.07	75.0		*
29	1,024 × 768 @75 Hz	60.02	75.03	78.75		*
30	1,024 × 768 @85 Hz	68.68	85.00	94.5		*
31	1,152 × 864 @75 Hz	67.50	75.00	108.0		*
32	1,280 × 768 @60 Hz	47.70	60.00	80.14		*
33	1,280 × 960 @60 Hz	60.00	60.00	108.0		*
34	1,280 × 960 @85 Hz	85.94	85.00	148.5		*
35	1,280 × 1,024 @60 Hz	63.98	60.02	108.0		*
36	1,280 × 1,024 @75 Hz	79.98	75.03	135.0		*
37	1,280 × 1,024 @85 Hz	91.15	85.02	157.5		*
38	1,600 × 1,200 @60 Hz	75.00	60.00	162.0		*
39	1,600 × 1,200 @65 Hz	81.25	65.00	175.5		*
40	1,066 × 600 @60 Hz	37.64	59.94	53.0		*
41	1,366 × 768 @60 Hz	48.36	60.00	86.71		*
42	Macintosh13" (640 × 480)	35.00	66.67	30.24		*
43	Macintosh16" (832 × 624)	49.72	74.54	57.28		*
44	Macintosh21" (1,152 × 870)	68.68	75.06	100.0		*

\*1: Based on SMPTE 274M standard.

\*2: Based on SMPTE RP211 standard.

\*3: Based on SMPTE 295M standard.

\*4: When selected the RGB format and 525p signal input to the Mini D-sub 15P terminal, it is recognized as VGA 60Hz signal.

\*5: When inputted VGA 60Hz format signal from the other than Mini D-sub 15P terminal, it is recognized as 525p signal.

**Note:** Signals without above specification may not be displayed properly.

# Command list of Weekly Command Timer

No.	Command	Control details
1	AAC:MENCLR	Audio Menu (Clear)
2	AAC:MENDYN	Audio Menu (Dynamic)
3	AAC:MENSTD	Audio Menu (Standard)
4	AAC:SURMON	Surround (ON)
5	AAC:SUROFF	Surround (OFF)
6	AMT:0	Audio Mute (OFF)
7	AMT:1	Audio Mute (ON)
8	ASO:M	Audio out when PIP mode (Main Picture)
9	ASO:S	Audio out when PIP mode (Sub Picture)
10	AVL:00	Audio Volume (00)
11	AVL:10	Audio Volume (10)
12	AVL:20	Audio Volume (20)
13	AVL:30	Audio Volume (30)
14	AVL:40	Audio Volume (40)
15	AVL:50	Audio Volume (50)
16	AVL:60	Audio Volume (60)
17	DAM:FULL	Aspect (FULL)
18	DAM:JUST	Aspect (JUST)
19	DAM:NORM	Aspect (4:3)
20	DAM:SELF	Aspect (Panasonic Auto)
21	DAM:ZOOM	Aspect (ZOOM)
22	DWA:OFF	Dual Picture mode (OFF)
23	DWA:OVL1	Advanced PIP mode (1) (see page 18)
24	DWA:OVL2	Advanced PIP mode (2) (see page 18)
25	DWA:OVL3	Advanced PIP mode (3) (see page 18)
26	DWA:OVL4	Advanced PIP mode (4) (see page 18)
27	DWA:OVL5	Advanced PIP mode (5) (see page 18)
28	DWA:OVL6	Advanced PIP mode (6) (see page 18)
29	DWA:OVLOF	Advanced PIP mode (OFF) (normal two screen display mode)
30	DWA:OVLON	Advanced PIP mode (ON)
31	DWA:PIN0	The location of the sub picture (lower right)
32	DWA:PIN1	The location of the sub picture (lower left)
33	DWA:PIN2	The location of the sub picture (upper left)
34	DWA:PIN3	The location of the sub picture (upper right)
35	DWA:PIP	Dual Picture mode (Picture in Picture)
36	DWA:POP	Dual Picture mode (Picture out Picture)
37	DWA:SWP	Swap main picture and sub picture when PIP mode
38	DWA:TWN	Dual Picture mode (Picture and Picture)
39	IMS:PC1	Input select (PC1) (Main Picture when PIP mode)
40	IMS:SL1	Input select (SLOT1) (Main Picture when PIP mode)
41	IMS:SL1A	Input select (SLOT1A) (Main Picture when PIP mode)
42	IMS:SL1B	Input select (SLOT1B) (Main Picture when PIP mode)
43	IMS:SL2	Input select (SLOT2) (Main Picture when PIP mode)
44	IMS:SL2A	Input select (SLOT2A) (Main Picture when PIP mode)
45	IMS:SL2B	Input select (SLOT2B) (Main Picture when PIP mode)
46	IMS:SL3	Input select (SLOT3) (Main Picture when PIP mode)
47	ISS:PC1	Sub Picture Input Select (PC1)
48	ISS:SL1	Sub Picture Input Select (SLOT1)
49	ISS:SL1A	Sub Picture Input Select (SLOT1A)
50	ISS:SL1B	Sub Picture Input Select (SLOT1B)
51	ISS:SL2	Sub Picture Input Select (SLOT2)
52	ISS:SL2A	Sub Picture Input Select (SLOT2A)
53	ISS:SL2B	Sub Picture Input Select (SLOT2B)
54	ISS:SL3	Sub Picture Input Select (SLOT3)
55	OSP:SCR0	Screen Saver SCROLLING BAR ONLY (OFF)
56	OSP:SCR1	Screen Saver SCROLLING BAR ONLY (ON)
57	POF	Power OFF
58	PON	Power ON
59	SSC:FNC0	Screen Saver function (SCROLLING BAR ONLY)
60	SSC:FNC1	Screen Saver function (NEGATIVE IMAGE)
61	SSC:MOD0	Screen Saver (Mode (OFF))
62	SSC:MOD3	Screen Saver (Mode (ON))
63	VMT:0*	Picture Mute (OFF)
64	VMT:1*	Picture Mute (ON)

\* Picture Mute cannot be unlocked by powering off/on with the remote control. Turn off and on again with the button on the unit or enter the command VMT:0 to unlock Picture Mute.



# Specifications

	TH-37PR11UK/H	TH-42PR11UK/H
<b>Power Source</b>	110 - 127 V AC, 50/60 Hz	
<b>Power Consumption</b>		
Power on	315 W	365 W
Stand-by condition	Save OFF 1.5 W, Save ON 0.6 W	Save OFF 1.5 W, Save ON 0.6 W
Power off condition	0.2 W	0.2 W
<b>Plasma Display panel</b>	Drive method : AC type 37-inch, 16:9 aspect ratio	Drive method : AC type 42-inch, 16:9 aspect ratio
<b>Screen size</b>	32.2" (819 mm) (W) × 17.9" (457 mm) (H) × 36.9" (938 mm) (diagonal)	36.2" (922 mm) (W) × 20.4" (518 mm) (H) × 41.6" (1,057 mm) (diagonal)
(No. of pixels)	737,280 (1,024 (W) × 720 (H)) [3,072 × 720 dots]	786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]
<b>Operating condition</b>		
Temperature	32 °F - 104 °F (0 °C - 40 °C)	
Humidity	20 % - 80 %	
<b>Applicable signals</b>		
Scanning format	525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 750 (720) / 60p · 50p, 1125 (1080) / 60i · 60p · 50i · 50p · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i	
PC signals	VGA, SVGA, XGA, SXGA, UXGA .... (compressed) Horizontal scanning frequency 15 - 110 kHz Vertical scanning frequency 48 - 120 Hz	VGA, SVGA, XGA, SXGA, UXGA .... (compressed) Horizontal scanning frequency 15 - 110 kHz Vertical scanning frequency 48 - 120 Hz
<b>Connection terminals</b>		
PC IN	(HIGH-DENSITY MINI D-SUB 15PIN) Y or G with sync 1.0 Vp-p (75 Ω) Y or G without sync 0.7 Vp-p (75 Ω) B/P <sub>B</sub> /C <sub>B</sub> : 0.7 Vp-p (75 Ω) R/P <sub>R</sub> /C <sub>R</sub> : 0.7 Vp-p (75 Ω) HD/VD: 1.0 - 5.0 Vp-p (high impedance) 0.5 Vrms AUDIO IN (M3 JACK)	
SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9PIN)	RS-232C COMPATIBLE
<b>Accessories Supplied</b>		
Fixing band	TMME203 × 1	
<b>Dimensions (W × H × D)</b>	36.1" (917 mm) × 25.4" (644 mm) × 3.7" (95 mm) (4.3" (109 mm) when including protruding portion of slots)	40.2" (1,020 mm) × 27.8" (705 mm) × 3.7" (95 mm) (4.3" (109 mm) when including protruding portion of slots)
<b>Mass (weight)</b>	approx. 52.9 lbs	approx. 59.5 lbs
<b>Sound</b>		
Speaker	4.8" (120 mm) × 2.4" (60 mm) × 2 pcs, 8 Ω	
Audio Output	20W [10 W + 10 W] (10 % THD)	

**Note:**

Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.



**(for the U.S.A and Puerto Rico)**

Panasonic Professional Display Company  
Unit of Panasonic Corporation of  
North America  
One Panasonic Way 1F-10  
Secaucus, NJ 07094

**Panasonic Professional Flat Panel Display  
Limited Warranty**

Panasonic Professional Display Company. (referred to as "the Warrantor") will repair this product and all included accessories with new or refurbished parts, free of charge in the USA or Puerto Rico, of the original purchase in the event of a defect in materials or workmanship as follows:

Models or Parts	Part Warranty	Labor Warranty
Professional Flat Panel Display	2 Years	2 Years

On-site or carry-in service in the **USA and Puerto Rico** may be obtained during the warranty period by contacting Panasonic Professional Display Company Service toll free at 1-800-973-4390.

This warranty is extended only to the original purchaser and is non transferable. A purchase receipt or other proof of date of original purchase will be required before warranty service is rendered.

This warranty only covers failures due to defects in materials or workmanship, which occur during normal use. The warranty does not cover damage which occur in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from improper installation, set-up adjustments, improper

antenna, inadequate signal pickup, maladjustment of consumer controls, improper operation, power line surge, improper voltage supply, lighting damage, or service by anyone other than an authorized repair facility, or damage that is attributable to acts of God.

**LIMITS AND EXCLUSIONS**

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGE TO DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THE WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights and you may have other rights, which vary from state to state.

If you have a problem with this product that is not handled to your satisfaction, then write the Consumer Affairs Department at the Company address indicated above.

In the USA and Puerto Rico  
FOR SERVICE  
CALL TOLL FREE  
1-800-973-4390

Panasonic Canada Inc.  
5770 Ambler Drive, Mississauga, Ontario L4W 2T3  
**LIMITED WARRANTY STATEMENT**

Panasonic Canada Inc. (also known as PCI) warrants this product to be free of defects in material and workmanship under normal use during the applicable warranty coverage period described below. PCI agrees to repair, or at its option, exchange, any part that becomes defective. However, the product must be purchased and serviced in Canada. The product or part that shows evidence of defect must be delivered prepaid or carried in to an authorized Panasonic Broadcast Service Center. This warranty does not cover shipping costs.

The warranty coverage period is one year for both parts and labour beginning with the date of original end user purchase, subject to the exceptions as stated below. Repaired or replacement parts supplied during the warranty coverage period carry the unexpired portion of the original warranty coverage period. Proof of product purchase is a condition of warranty service. The owner must produce the product purchase receipt or other satisfactory evidence of date of original purchase.

This warranty does not apply to external appearance items, such as handles, knobs, safety windows, etc. This warranty does not apply to any part, or parts, of the product, installed, altered, repaired or misused in any way that, in the opinion of PCI, affects the reliability of or detracts from the performance of the product.

For products requiring routine preventive maintenance, that maintenance must be performed in order to maintain warranty coverage.

Serial numbers that have been altered, defaced or removed void this warranty. This warranty does not cover replacements or repairs necessitated by loss or damage resulting from any cause beyond the control of PCI.

Marking or retained images (sometimes called "burn-in") resulting from the display of fixed images on video display products are not defects and are not covered under this warranty.

**THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.**

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

**WARRANTY COVERAGE PERIOD EXCEPTIONS**

Item	Parts	Labour
Video Tape	30 days—Replacement only (content not covered)	N/A
P2/SD Cards	(Content not covered)	N/A
Video Heads	1 year or 2,000 hrs. (prorated) Whichever comes first	1 year or 2,000 hrs. Whichever comes first
D5 Video heads	1 year or 1,000 hrs. Whichever comes first	1 year or 1,000 hrs. Whichever comes first
Maintenance Items	90 days	90 days
Colour Camera CCD Imaging Block	2 years	1 year
BT-H Series LCD Monitors	2 years	1 year
* DLP™ Projectors	3 years or 17,000 hrs. Whichever comes first	3 years or 17,000 hrs. Whichever comes first
* LCD Projectors above 2,500 ANSI Lumens	3 years or 2,500 hrs. Whichever comes first	3 years or 2,500 hrs. Whichever comes first.
* LCD Projectors below 2,500 ANSI Lumens	3 years or 1,500 hrs. Whichever comes first	3 years or 1,500 hrs. Whichever comes first
Projector Lamps	50% of the rated lamp life or 1 year. Whichever comes first	50% of the rated lamp life or 1 year. Whichever comes first.
103 inch Plasma displays	3 year (burn-in not covered)	3 year
Hard Drive Disk Unit	1 year plus balance (if any) of the original Manufacturer's Limited Warranty. (Content not covered)	1 year

- \* Dust, smoke, rental/staging environment and twenty-four/seven operation, dramatically decreases the interval between performances of routine preventive maintenance required to maintain this warranty coverage.

**Warranty Service**

If the product needs to be shipped for service, carefully pack (preferably in the original carton) and enclose a letter, detailing the complaint. Send prepaid and adequately insured to the local authorized Panasonic Service Centre in your area or to Panasonic Technical Support and Product Services Department, 5770 Ambler Drive, Mississauga, Ontario, L4W 2T3. Shipping to the latter location requires a return authorization before shipment. No liability is assumed for loss or damage to the product while in transit.

## ***Customer Service***

### ***Customer Service Directory***

Obtain information products and operative assistant; localize the closer distributor or Service Center; buy spare parts and accessories by our web site to Latin American:

***<http://www.lar.panasonic.com>***

Also you may contact us directly by our Contact Center:

<b>Panama</b>	<b>800-PANA (800-7262)</b>
<b>Colombia</b>	<b>1-8000-94PANA (1-8000-947262) - National Line</b> <b>635-PANA (635-7262) - Bogota Line</b>
<b>Ecuador</b>	<b>1800-PANASONIC (1800-726276)</b>
<b>Costa Rica</b>	<b>800-PANA737 (800-7262737)</b>
<b>El Salvador</b>	<b>800-PANA (800-7262)</b>
<b>Guatemala</b>	<b>1-801-811-PANA (1-801-811-7262)</b>
<b>Chile</b>	<b>800-260602</b> <b>From a cell phone: 245-2520</b>
<b>Venezuela</b>	<b>800-PANA-800 (800-7262-800)</b>
<b>Uruguay</b>	<b>0-800-PANA (0800-7262)</b>

### ***Mexico Service***

To obtain information in the Republic of Mexico contact us at:

***[email: atencion.clientes@mx.panasonic.com](mailto:atencion.clientes@mx.panasonic.com)***

Or you may contact us in the next following phones numbers:

**01800-VIP-PANA (01800-847-7262) - Interior**  
**(55) 5000-1200 - Mexico D.F. and Metropolitan Area**

**Customer's Record**

The model number and serial number of this product can be found on its back cover. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number \_\_\_\_\_

Serial Number \_\_\_\_\_

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**Panasonic Professional Display Company**

Unit of Panasonic Corporation of North America

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